METEOROLOGICAL OFFICE,

LONDON.

DAILY WEATHER REPORTS.

1ST JANUARY—30TH JUNE,

1889.

Soc. Reg. Lond.

9/12/89.

DAILY WEATHER REPORT.

January to June 1889.

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DAILY WEATHER REPORT.

for SATURDAY 1ST JUNE *1889.*

Issued by the Meteorological Office 63 Victoria Street, London. **R.H. SCOTT,** *Secretary.*

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29·88	44	SW	2	f	29·97	·00	56	52	— 6	SW	4	b	*	68	43	0·75
	Hernösand ...	29·97	61	SW	2	b	30·11	+ ·18	54	51	— 6	Z	0	r	*	73	50	0·04
	Stockholm ...	30·17	59	S	2	b	30·17	+ ·11	68	59	+ 6	S	6	b	*	72	50	—
	Wisby	30·21	60	SSE	2	b	30·16	+ ·08	71	62	+ 14	SSE	4	b	*	73	55	—
	Bodö	29·99	48	WSW	1	0	30·00	+ ·13	56	51	+ 6	E	2	b	1	?	46	0·04
	Christiansund...	29·88	61	ENE	2	bc	29·81	— ·08	61	53	+ 4	SE	4	b	2	63	48	—
	Skudesnaes ...	29·88	58	SSE	8	0	29·99	+ ·06	55	53	— 2	SSE	8	c	5	61	54	—
	Christiania Fjord (Færder)	30·01	63	ESE	4	0	30·02	·00	58	55	+ 1	W	4	0	2	63	55	0·24
	Skagen (The Scaw)	29·99	58	S	3	0	30·02	— ·02	59	56	+ 1	NW	2	0	2	66	55	0·43
	Fanö	29·96	57	SW	2	r	30·06	+ ·05	64	60	0	NW	2	b	*	70	55	0·49
BRITISH ISLANDS.	Sumburgh Head	29·57	50	SSE	3	op	29·72	+ ·08	52	50	0	SSW	3	bc	4	54	47	0·14
	Stornoway ..	29·46	55	S	4	bc	29·56	+ ·05	53	52	0	S	4	0	4	56	49	—
	Wick	29·50	55	S	2	0	29·67	+ ·12	58	55	+ 6	S	4	b	3	60	49	0·01
	Nairn	29·49	58	Z	0	c	29·65	+ ·12	58	53	+ 5	SW	3	c	1	60	48	0·04
	Aberdeen... ...	29·58	53	SSE	4	bc	29·78	+ ·18	55	51	+ 5	SSE	4	bcq	4	56	48	0·24
	Leith	29·61	57	S	3	b	29·76	+ ·19	54	50	0	S	1	0	*	61	51	0·10
	Shields	29·66	58	S	3	c	29·85	+ ·22	56	52	+ 1	S	3	bc	2	60	46	0·13
	Spurn Head ...	29·78	58	SSW	6	r	29·95	+ ·18	55	52	— 1	SSW	4	b	4	62	48	0·01
	York	29·69	60	S	4	c	29·87	+ ·19	55	52	+ 1	S	3	bc	*	63	47	0·01
	Loughborough	29·79	60	SSW	3	bc	29·94	+ ·18	57	52	+ 2	S	3	c	*	62	48	0·35
	Ardrossan ...	29·55	56	S	3	c	29·71	+ ·17	55	52	+ 1	S	4	0	3	58	52	0·03
	Malin Head ...	29·50	52	ESE	1	op	29·51	+ ·03	52	50	0	S	5	og	3	58	49	0·17
	Mullaghmore ...	29·54	55	W	2	cp	29·47	— ·04	54	49	0	SE	6	rg	5	60	49	0·22
	Belmullet ...	29·52	55	SW	2	0	29·37	— ·15	53	53	— 1	SSE	6	0	*	58	51	0·18
	Donaghadee ...	29·58	58	SW	5	bc	29·69	+ ·13	53	52	0	S	5	c	3	61	50	0·02
	Barrow-in-Furness	29·67	55	SSW	5	b	29·87	+ ·22	53	51	+ 1	SE	6	bc	*	58	50	0·04
	Liverpool (Bidston)	29·71	59	SW	4	b	29·84	+ ·19	57	51	+ 5	SE	3	bc	3	63	46	0·03
	Holyhead ...	29·68	54	SSW	5	bq	29·76	+ ·15	55	51	+ 3	SSE	6	cqw	5	57	50	—
	Parsonstown ...	29·59	56	Z	0	0	29·55	— ·02	54	51	0	SE	2	0	*	62	42	0·04
	Valencia	29·64	56	SSW	4	c	29·41	— ·20	54	53	— 2	SSE	8	rmu	6	58	51	0·63
	Roche's Point...	29·68	56	SW	4	bc	29·59	+ ·03	52	52	— 3	SSW	8	r	6	57	50	0·25
	Pembroke ...	29·75	53	SSW	4	bc	29·77	+ ·11	53	52	0	SSE	6	bcq	6	56	51	—
	Scilly	29·78	57	SW	4	0	29·76	+ ·04	57	54	+ 2	S	7	cm	5	60	52	—
	Prawle Point ...	29·86	53	SSW	4	c	29·91	+ ·12	53	52	— 1	SSE	4	bm	3	57	49	—
	Jersey	29·91	60	W	3	bc	29·97	+ ·09	60	55	+ 4	SSE	3	bm	3	63	44	—
	Hurst Castle ...	29·90	56	SW	6	b	29·97	+ ·13	59	56	+ 3	SSW	4	b	3	61	53	—
	Dungeness ...	29·91	57	SSW	4	bc	29·99	+ ·10	55	54	— 1	S	3	c	2	61	53	—
	London	29·88	61	SW	2	b	29·97	+ ·12	61	55	+ 5	SSE	1	bc	*	65	47	—
	Oxford	29·88	54	SSW	4	b	29·96	+ ·15	58	53	+ 4	S	3	b	*	60	48	—
	Cambridge ...	29·89	57	S	1	b	29·98	+ ·14	56	54	0	S	1	b	*	65	44	—
	Yarmouth ...	29·86	58	S	4	b	30·00	+ ·14	50	55	0	S	3	bc	3	59	50	—
GERMANY.	Cuxhaven ...	29·91	61	NNE	3	b	30·04	+ ·02	63	60	0	WNW	4	b	*	72	60	0·20
	Berlin	30·01	77	SSE	3	b	30·08	— ·01	73	65	+ 3	SSE	2	b	*	86	64	—
	Wiesbaden ...	*	*	*	*	*	30·01	·00	69	64	+ 6	W	2	b	*	84	59	—
	Munich	30·01	64	NE	2	b	30·07	— ·03	65	62	+ 1	NW	1	b	*	75	54	—
FRANCE & NETHERLANDS.	The Helder ...	29·95	56	SSW	1	bc	30·06	+ ·11	58	54	— 1	SSW	1	b	1	63	48	0·08
	Brussels 9am	*	*	*	*	*	30·04	+ ·07	60	57	+ 2	E	3	b	*	62	51	0·08
	Cape Gris Nez...	?	58	SSW	3	bc	?	?	57	52	+ 2	S	1	0	1	63	52	—
	Paris	29·96	59	NNE	1	0	30·08	+ ·13	58	57	+ 2	NNE	2	bc	*	61	51	0·16
	Brest	?	58	SW	3	b	?	?	55	53	0	SW	4	b	2	59	45	—
	Lorient	29·96	59	SW	3	b	29·96	+ ·07	56	53	+ 1	SSE	2	c	3	61	50	—
	Rochefort ...	30·02	58	WNW	3	0	29·97	·00	59	57	+ 5	NE	3	c	2	63	48	0·16
	Belfort	29·95	68	W	1	0	30·01	+ ·04	64	60	— 3	W	1	bc	*	73	55	0·12
	Lyons	29·88	78	S	3	b	29·97	+ ·01	68	61	+ 4	SSW	1	b	*	82	56	—
	Nice...	29·93	77	SW	1	b	29·96	— ·04	74	63	+ 4	Z	0	b	0	81	63	—
	Perpignan ...	29·93	67	SSE	2	0	29·95	+ ·03	65	61	— 1	E	2	c	*	75	59	—
	Biarritz	?29·96	58	NNE	2	r	?29·89	+ ·01	60	59	+ 3	ENE	3	r	4	63	55	0·35
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	29·96	56	NW	4	b	29·99	+ ·05	57	53	0	NW	4	bc	2	64	52	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Saturday, 1st June, 1889.

BAROMETER, WIND & SEA.

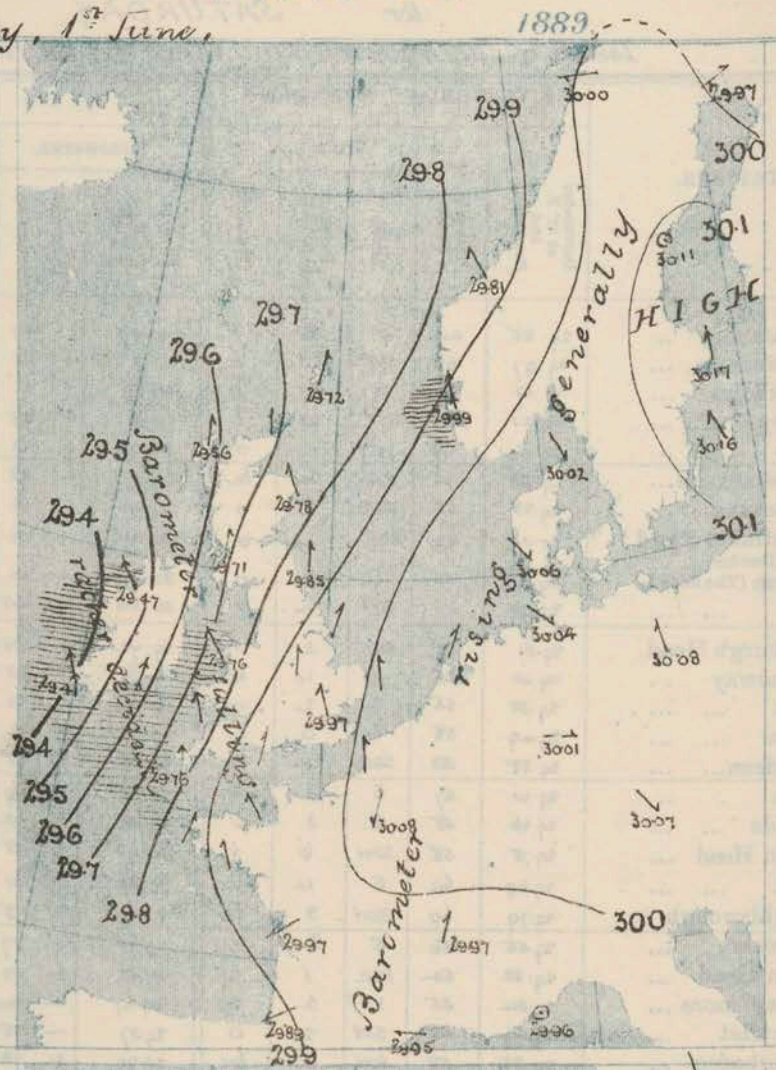
(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevailent winds. They fly with the wind and their barbs and feathers refer to force, thus —*

⟶ = forces above 10, ⟶ = forces 8 to 10,
⟶ = forces 5 to 7, ⟶ = forces 1 to 4,
⊙ = dead calm.

Sea Disturbance — *where considerable, is shewn thus.*
= Rough. = High.



MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885.

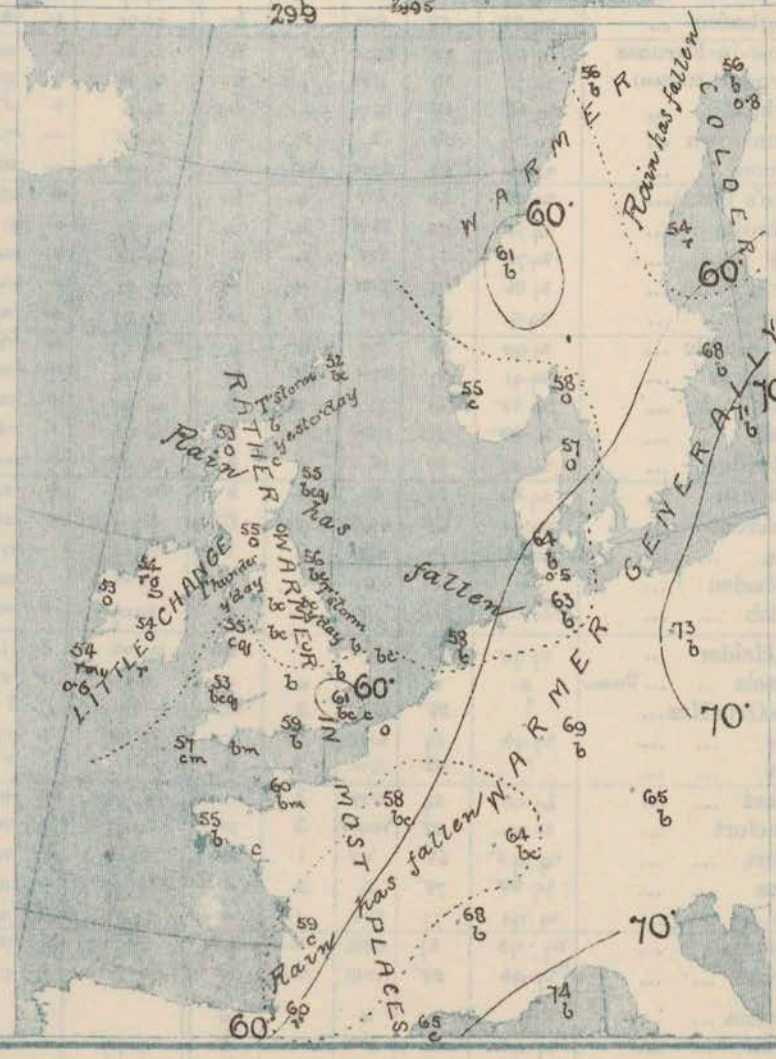
STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963

TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° Changes since previous morning are stated in words.*

Weather *is shown by Letters of the Beaufort Scale.*

Rainfall *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.*



MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

for the month of June

STATIONS	TEMPERATURE. Daily Max	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·8	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85 the Rainfall means are mainly those for the 20 years 1866-85

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·1 ins. and upwards, in Sweden.
Lowest 29.4 ins. and less, in a depression lying off the west of Ireland.
Gradients rather steep over Ireland and its immediate neighbourhood, but moderate or slight elsewhere.
Barometer rising at all but the Irish stations, where it is falling somewhat decidedly.

TEMPERATURE — Highest 74° at Nice, 73° at Berlin, 71° at Wisby, 69° at Wiesbaden, and 68° at Stockholm and Lyons.
Lowest 52° at Lerwick, Malin Head and Rocks Point, and 53° at Stornoway, Donaghadee, Barrow in Furness, Belmullet, Pembroke and Prawle Point.

WIND — S.ly or S.E.ly over our Islands and Scandinavia; strong in force on our west coasts, with gale in the S. of Ireland. Light or moderate from the W.ward in Denmark; variable in Germany; light from E or N.E over the central and southern parts of France.

WEATHER — Fine generally but dull in the west of Scotland, and rainy in the west and south of Ireland. Showers fell yesterday at many of our western and northern stations, and thunderstorm occurred at Wick and Loughborough.

SEA — Rough on our southwest coasts, and rather rough off the west of Ireland, as well as at Skudesnaes, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression in the west will probably travel northwards and occasion some increase of wind on the Scotch coasts. Nothing serious is, however, apprehended at present.

FORECASTS

for the 24 hours ending at NOON on 2nd JUNE 1889.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S.ly winds, moderate to strong; fine to unsettled, and some rain.
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	S.ly and S.W.ly winds, freshening; fine to unsettled, and showery.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	

DISTRICTS.	FORECASTS.
6 SCOTLAND WEST	Same as No. 0 to 2.
7 ENGLAND N.W.	S.E.ly and S.ly to S.W.ly winds, strong; squally, some rain.
8 ENGLAND S.W	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	None Issued.

Note.—The **South Cone**, *point downwards* (▽) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (△) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.92	61	54	SSE 7	c	5	Holyhead ...	29.66	57	53	SSW 5	bq	5
Sumburgh He'd	29.61	50	50	SSE 2	o	4	Valencia	29.64	58	55	WSW 5	o p	5
Stornoway ...	29.49	56	55	S 3	bc	3	Scilly	29.78	59	54	WSW 5	bc	4
Aberdeen ...	29.58	50	49	SSE 4	o r	5	Jersey	29.90	61	56	SE 4	bc	4
Shields	29.66	54	52	S 4	c	2	Dungeness ...	29.90	58	55	SW 4	c	3
Ardrossan ...	29.55	58	55	S 3	c	2	London	29.86	64	55	SSE 3	bc	*
Malin Head ...	29.50	56	52	N 1	o	1	Yarmouth ...	29.86	59	55	S 5	bc	4
Mullaghmore ...	29.52	60	54	WSW 2	bc	2	Rochefort ...	30.01	59	57	NNE 3	r	2
Belmullet ...	29.54	56	55	WSW 3	c p	*							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure varied from between 30·0 ins. and 30·3 ins. in a large and complex anticyclone which covered eastern and central Europe and the Baltic, and from 29·9 ins. and more, over Portugal and the adjacent parts of the Atlantic, to less than 29·5 ins. in a well-marked depression lying off our own northwestern coasts, and to less than 29·9 ins. in another (shallow) system lying over Greece and Turkey. The gradients were moderate, for 5th winds, over England, Scotland and the North Sea, slight and variable elsewhere. 3rd breezes, moderate to strong in force prevailed over Great Britain, and the southwest of Norway, and while over nearly the whole of Continental Europe the wind was light and exceedingly variable, it was NE by over the greater part of Italy, and NW by at Brindisi. The weather was fair in many parts of the British Islands and France, but with passing showers in places, fine as a whole elsewhere. Temperature ranged from 66° to 76° over the eastern and southern parts of the Mediterranean, and exceeded 72° at Moscow; it was above 60° over Central Europe, as well as in Denmark, Sweden and Finland, but was lower elsewhere, and did not exceed 50° in the east of Scotland and northwest of Norway. The highest readings of all were 76° at Sfax and Trieste, 75° at Lesina and Sanguinaire, 72° at Brindisi, Rome and Moscow, and 70° at Oran and Naples; the lowest were 50° at Bodö and Aberdeen, 51° at Le Mans, 52° at Wick, Malin Head, Holyhead and Liverpool, 54° in London, 56° at Paris, and 57° at Biarritz and Lisbon.

Later in the day there were showers in many parts of the British Islands, France and Scandinavia – the fall being heaviest at Haparanda and Valencia. In the south and east of England, however, the showers were very slight, and the weather was in other respects fine and cool.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 2nd June. 1889.

Issued by the Meteorological Office 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·05	48	SW	2	r	30·31	+ ·34	58	54	+ 2	N	2	o	*	59	39	0·12
	Hernösand ...	30·13	57	2	0	b	30·39	+ ·28	59	54	+ 5	NNE	2	b	*	66	50	0·04
	Stockholm ...	30·19	64	SSE	2	c	30·30	+ ·13	72	64	+ 4	ENE	2	b	*	75	52	—
	Wisby	30·24	64	SE	4	b	30·25	+ ·09	72	64	+ 1	ENE	2	b	*	?	55	—
	Bodö	30·06	53	2	0	c	30·32	+ ·32	56	51	0	E	2	o	1	64	45	0·04
	Christiansund...	30·10	60	N	1	b	30·21	+ ·40	61	55	0	E	1	b	1	68	52	—
	Skudesnaes ...	30·15	58	SSE	6	c	30·17	+ ·18	63	57	+ 8	E	4	c	3	?	52	—
	Christiania Fjord (Færder)	30·15	63	S	4	b	30·24	+ ·22	60	54	+ 2	NNW	4	bc	2	64	57	—
	Skagen (The Scaw)	30·17	60	E	1	b	30·17	+ ·15	63	60	+ 6	E	3	bc	2	72	57	—
	Fanö	30·14	59	NW	2	b	30·04	— ·02	70	67	+ 6	E	4	b	*	72	59	—
BRITISH ISLANDS.	Sumburgh Head	29·86	52	SSE	3	bc	29·99	+ ·27	51	50	— 1	SE	2	o	4	56	48	—
	Stornoway ..	29·61	54	S	5	o	29·71	+ ·15	56	56	+ 3	SE	1	o	2	56	50	—
	Wick	29·75	53	S	6	o	29·90	+ ·23	52	? 49	— 6	S	2	o	3	60	48	—
	Nairn	29·70	62	SW	4	bc	29·78	+ ·13	67	60	+ 9	E	3	b	1	67	49	—
	Aberdeen... ...	29·84	52	SSE	5	bcq	29·92	+ ·14	52	50	— 3	E	1	cp	4	58	49	0·01
	Leith	29·79	62	S	2	bc	29·81	+ ·05	60	57	+ 6	2	0	bc	*	65	48	—
	Shields	29·84	59	S	4	c	29·84	— ·01	50	50	— 6	E	1	of	2	65	49	—
	Spurn Head ...	29·91	55	SE	6	b	29·78	— ·14	55	54	0	E	3	om	3	62	52	—
	York	29·85	67	S	2	b	? 29·77	— ·10	62	59	+ 7	NNE	1	bc	*	68	54	—
	Loughborough	29·88	69	SSE	3	b	29·80	— ·14	60	59	+ 3	NW	2	omq	*	72	55	—
	Ardrossan ...	29·73	57	S	5	c	29·94	+ ·03	59	57	+ 4	ESE	2	rm	2	59	53	—
	Malin Head ...	29·49	64	SSE	7	ow	29·64	+ ·13	55	53	+ 3	SSE	4	o	3	57	52	—
	Mullaghmore ...	29·45	55	SE	8	op	29·62	+ ·15	53	50	— 1	SE	3	ogr	2	58	? 50	0·14
	Belmullet ...	29·37	56	SSW	6	og	29·55	+ ·18	54	53	+ 1	SSE	4	o	*	56	50	0·27
	Donaghadee ...	29·71	55	SSW	6	c	29·74	+ ·05	52	52	— 1	SSE	4	m	3	58	51	0·01
	Barrow-in-Furness	29·80	62	SSE	5	b	29·76	— ·05	60	58	+ 7	NE	2	tr	*	63	53	0·10
	Liverpool (Bidston)	29·87	62	SSE	3	bc	29·73	— ·11	59	59	+ 2	ESE	1	of	2	67	57	0·10
	Holyhead ...	29·77	59	S	4	cq	29·71	— ·05	56	55	+ 1	2	0	ogm	0	62	53	0·09
	Parsonstown ...	29·53	54	SE	3	o	29·63	+ ·08	51	50	— 3	2	0	r	*	58	49	0·18
	Valencia	29·43	54	S	6	omw	29·56	+ ·15	54	53	0	SE	4	omq	5	55	51	0·57
	Roche's Point...	29·54	58	S	8	r	29·52	— ·07	51	51	— 1	SSE	5	r	5	53	50	1·10
	Pembroke ...	29·76	55	S	5	bc	29·67	— ·10	56	55	+ 3	SSE	4	cmr	4	56	52	—
	Scilly	29·71	56	S	6	c.	29·60	— ·16	55	54	— 2	SSE	5	om	5	59	53	—
	Prawle Point ...	29·74	56	ESE	3	c	29·69	— ·22	57	56	+ 4	2	0	o	2	58	51	0·03
	Jersey	29·86	68	SE	1	cgm	29·72	— ·25	62	59	+ 2	W	3	cgm	3	70	57	0·08
	Hurst Castle ...	29·88	62	ESE	4	bc	29·69	— ·28	67	64	+ 8	E	4	b	2	67	56	0·02
	Dungeness ...	29·94	59	E	3	b	29·74	— ·25	64	59	+ 9	SE	4	bc	3	64	55	—
	London	29·91	68	E	3	b	29·71	— ·26	74	61	+ 13	SSE	2	bc	*	75	61	—
	Oxford	29·88	63	S	1	b	29·72	— ·24	62	62	+ 4	NE	1	b	*	68	56	0·19
	Cambridge ...	29·92	65	S	1	b	29·74	— ·24	71	? 69	+ 15	SE	1	b	*	71	52	—
GERMANY	Yarmouth ...	29·97	57	E	4	b	29·82	— ·18	59	58	+ 3	ESE	3	b	3	59	54	—
	Cuxhaven ...	30·11	65	NW	2	b	30·01	— ·03	70	67	+ 7	SE	3	m	*	70	62	—
	Berlin	30·03	81	SE	2	b	30·02	— ·06	74	66	+ 1	SE	4	b	*	91	68	—
	Wiesbaden ...	*	*	*	*	*	29·91	— ·10	74	67	+ 5	E	1	b	*	84	64	—
	Munich	30·01	68	NE	2	b	29·95	— ·12	66	62	+ 1	E	4	b	*	79	54	—
FRANCE & NETHERLANDS.	The Helder ...	29·98	63	ENE	2	b	29·92	— ·14	69	?	+ 11	E	1	b	0	70	52	
	Brussels 9am	*	*	*	*	*	29·83	— ·21	75	66	+ 15	ENE	1	b	*	81	60	—
	Cape Gris Nez...	?	58	NE	3	b	?	?	72	64	+ 15	SSE	1	b	2	?	57	0·20
	Paris	29·88	75	NE	1	bc	29·82	— ·26	72	65	+ 14	SSE	2	b	*	82	58	—
	Brest	?	57	SW	1	o	?	?	57	55	+ 2	S	3	c	1	59	?	—
	Lorient	29·95	60	2	0	o	29·73	— ·28	59	58	+ 3	S	1	o	5	66	54	—
	Rochefort ...	29·87	67	N	3	bc	29·84	— ·13	63	62	+ 4	SE	1	bc	2	75	55	—
	Belfort	29·92	75	E	1	b	29·87	— ·14	73	67	+ 9	W	1	b	*	83	61	—
	Lyons	29·89	77	S	2	bc	29·89	— ·08	66	61	— 2	SSW	1	c	*	85	60	0·12
	Nice...	29·93	75	SW	4	c	30·00	+ ·04	68	60	— 6	NE	5	bc	3	81	63	—
PENINSULA.	Perpignan ...	29·89	70	S	3	o	29·84	— ·11	65	61	0	SW	2	o	*	74	60	0·04
	Biarritz	? 29·82	64	E	2	r	? 29·82	— ·07	63	55	+ 3	SSW	3	b	2	68	55	0·06
	Corunna	*	*	*	*	*	29·78	— ·22	56	55	— 4	SW	2	r	4	71	54	0·24
	Lisbon	30·02	59	SW	4	o	29·97	— ·02	60	57	+ 3	SSW	5	o	?	64	57	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion on Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Sunday, 2nd June. 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —*

⟶ = forces above 10, ⟶ = forces 8 to 10,
⟶ = forces 5 to 7, ⟶ = forces 1 to 4,
⊙ = dead calm.

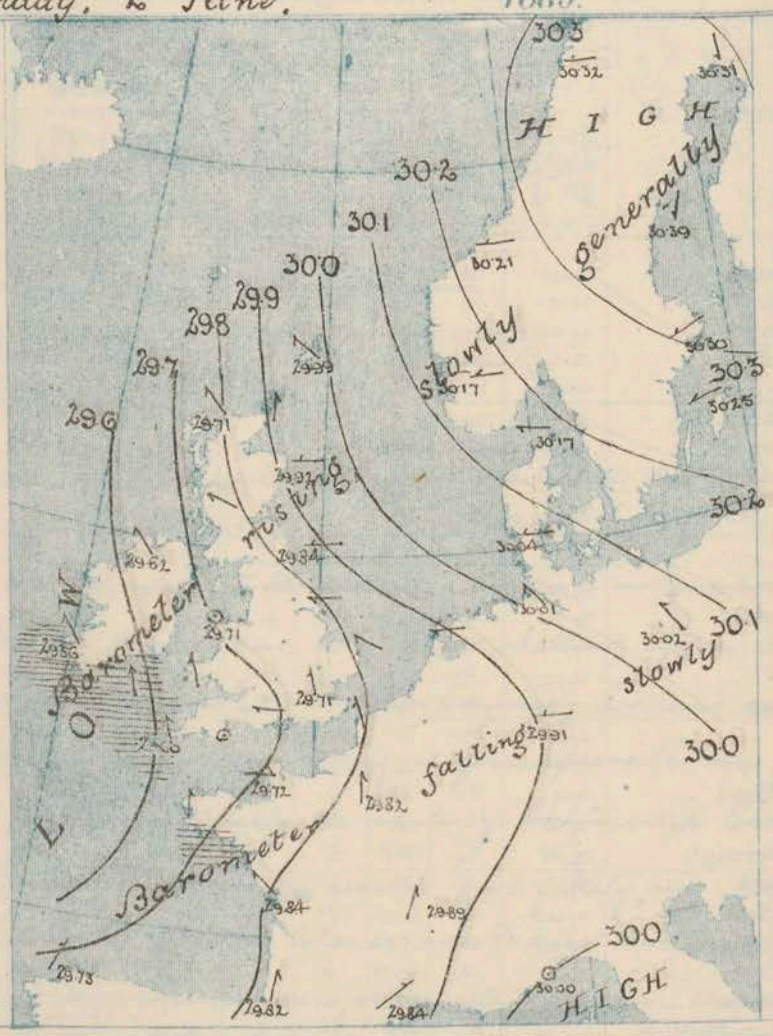
Sea Disturbance — *where considerable, is shown thus.*

= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29 · 862
Stornoway	29 · 852
Wick	29 · 874
Nairn	29 · 880
Aberdeen	29 · 890
Leith	29 · 904
Shields	29 · 928
York	29 · 949
Loughborough	29 · 958
Ardrossan	29 · 909
Donaghadee	29 · 920
Holyhead	29 · 944
Liverpool	29 · 944
Parsonstown	29 · 952
Valencia	29 · 954
Roche's Point	29 · 952
Pembroke	29 · 952
Scilly	29 · 982
Jersey	29 · 994
Hurst Castle	29 · 981
Dover	29 · 971
LONDON	29 · 976
Oxford	29 · 964
Cambridge	29 · 967
Yarmouth	29 · 963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10°. Changes since previous morning are stated in words.*

Weather *is shown by Letters of the Beaufort Scale.*

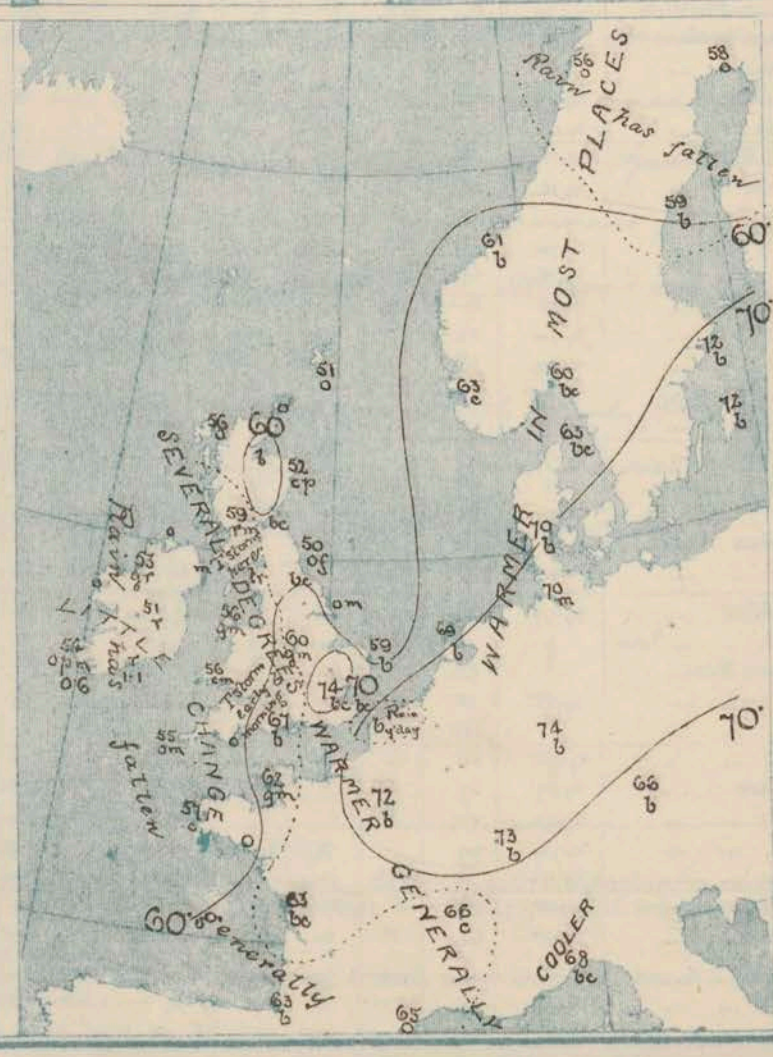
Rainfall. *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.*

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June.

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches)
Sumburgh Head	54 · 5	45 · 1	50 · 4	48 · 7	2 · 07
Stornoway	57 · 6	46 · 0	53 · 3	51 · 0	2 · 99
Wick	58 · 8	45 · 7	53 · 1	50 · 4	1 · 75
Nairn	62 · 1	48 · 0	54 · 2	50 · 4	1 · 88
Aberdeen	61 · 3	47 · 5	54 · 7	50 · 9	1 · 88
Leith	64 · 5	48 · 1	56 · 0	52 · 5	1 · 84
Shields	60 · 9	49 · 1	54 · 9	51 · 9	1 · 82
York	66 · 2	48 · 3	56 · 1	52 · 7	2 · 45
Loughborough	68 · 7	49 · 0	58 · 1	54 · 1	2 · 43
Ardrossan	62 · 0	49 · 7	55 · 1	52 · 0	2 · 62
Donaghadee	60 · 9	48 · 9	55 · 0	52 · 8	2 · 04
Holyhead	61 · 7	51 · 6	55 · 6	53 · 1	2 · 10
Liverpool	63 · 6	50 · 9	56 · 6	52 · 6	1 · 96
Parsonstown	64 · 0	48 · 2	55 · 8	52 · 2	2 · 46
Valencia	61 · 7	50 · 7	56 · 8	53 · 8	3 · 42
Roche's Point	64 · 8	50 · 8	56 · 5	53 · 3	3 · 26
Pembroke	60 · 3	51 · 4	55 · 0	52 · 9	2 · 09
Scilly	61 · 1	53 · 0	57 · 2	55 · 0	1 · 94
Jersey	64 · 8	52 · 6	58 · 7	55 · 9	1 · 83
Hurst Castle	63 · 9	51 · 9	57 · 6	55 · 4	2 · 07
Dover	63 · 3	53 · 1	58 · 6	55 · 1	1 · 72
LONDON	69 · 3	50 · 6	59 · 2	54 · 8	2 · 12
Oxford	67 · 1	49 · 4	56 · 9	53 · 4	2 · 28
Cambridge	68 · 8	48 · 5	58 · 0	54 · 7	2 · 40
Yarmouth	62 · 2	51 · 4	56 · 9	54 · 1	2 · 02

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·3 ins: and upwards, over the north of Scandinavia.
Lowest, 29·6 ins: and less, in a depression lying off our extreme west and southwest coast.
Gradients moderate. Barometer rising in Scandinavia and the east and north of our Islands, but falling elsewhere.

TEMPERATURE — Highest, 75° at Brussels, 74° at Berlin, Wiesbaden, and in London, 72° at Stockholm, Malta, Cape Gris Nez and Paris, and 71° at Cambridge.
Lowest, 56° at Shields, 57° at Lerwick Head, Paramatown, and Roches Point and 57° at Wick, Aberdeen, and Donaghadee.

WIND — Light or moderate from the E.ward or SE.ward over our Islands and the eastern shores of the North Sea.
Light from the S.ds in France and from S.rly over the Iberian Peninsula.
Light from the N.ds in the north of Sweden.

WEATHER — Rainy in Ireland and dull on our northeast coast with fog at Shields.
Fine in most other localities, but rainy at Corunna.
Heavy rain fell yesterday at most of our western stations, and thunderstorms occurred early this morning over the south of England.

SEA — Rather rough on our southwest coast, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

for the 24 hours ending at NOON on 3rd June 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED	6 SCOTLAND WEST	NONE ISSUED
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to *veer* towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to *veer* towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.		Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesnaes ...	30.09	58	55	SSE	8	bc	5	Holyhead ...	29.77	61	55	SSW	6	bq	6
Sumburgh Head	29.81	54	52	SSE	3	c	4	Valencia	29.39	54	53	SSE	7	rm	6
Stornoway ...	29.59	54	54	S	6	o	5	Scilly	29.73	58	55	SSE	7	c	6
Aberdeen ...	29.83	56	51	SSE	5	bcq	5	Jersey	29.90	67	59	SE	1	b	1
Shields	29.86	64	56	S	4	c	2	Dungeness ...	29.96	62	58	E	3	b	1
Ardrossan ...	29.73	57	53	S	5	o	5	London	29.93	70	60	SE	3	b	*
Malin Head ...	29.45	57	54	S	7	o	4	Yarmouth ...	30.02	58	56	SE	3	b	3
Mullaghmore ...	29.44	57	53	SE	8	or	6	Rochefort ...	29.93	73	68	NNE	2	bc	2
Belmullet ...	29.37	54	53	SSW	5	or	*								

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was highest, 30·3 ins: and upwards, in an anticyclone lying over Central Russia, and lowest, 29·4 ins: and less, in a rather deep depression lying to the Westward of Ireland. Over Southern Europe and the Mediterranean the distribution of pressure was very irregular, shallow disturbances with readings below 29·9 ins: being found respectively near Malta, off the coasts of Tunis and over the northeast of Spain. The wind was S or SE over our Islands and the west of Norway and on our eastern coasts it blew strongly, with a gale in Ireland. Elsewhere, however, the wind was light and very variable. The weather was fair on the whole, but rainy in Ireland, as well as at Biarritz and Madrid and dull over the western parts of Algeria. Temperature had changed rather irregularly over Western Europe, but risen elsewhere, readings ranged from a little above 70° over North Germany, Italy, Tunis and the extreme south of France to 50° or less over Finland and the west and north of our Islands. The highest individual readings were 80° at Treiste, 79° at Cagliari, 77° at Memel, Nice, and Leghorn, 73° at Berlin, Lesina, Rome, and Buda Pesth, 72° at Moscow, Swinemunde, and Brindisi; the lowest were 51° at Kuopio, 52° at Uleaborg, Sumburgh Head & St Rocheé Point, 53° at Stornoway, Barrow in Furness, Donaghadee, Pembroke and Hawks Pt. and 54° at Leith, Mullaghmore, Parsnetown, and Valencia.

In the course of the day the depression off the west of Ireland travelled away in a north northwesterly direction. The weather remained fine over England and temperature rose to a maximum of 72° at York and 75° in London.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Monday 3rd June 1889.

Issued by the Meteorological Office 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·36	53	SW	2	b	30·38	+ ·07	64	54	+ 6	NE	2	b	*	81	45	—
	Hernösand ...	30·40	58	E	0	b	30·46	+ ·07	61	53	+ 2	SSW	2	b	*	73	50	—
	Stockholm ...	30·32	63	ENE	2	c	30·29	— ·01	67	59	— 5	NE	2	b	*	79	55	—
	Wisby	30·24	68	ESE	4	b	30·19	— ·06	71	66	+ 5	ESE	4	b	*	84	61	—
	Bodö	30·36	57	N	2	b	30·38	+ ·06	63	54	+ 7	E	2	b	1	63	45	—
	Christiansund...	30·21	66	NNE	3	b	30·19	— ·02	68	60	+ 7	ESE	2	b	1	68	57	—
	Skudesnaes ...	30·07	72	E	4	c	30·08	— ·11	73	63	+ 10	E	6	b	4	79	66	—
	Christiania Fjord (Færder)	30·17	70	ENE	2	b	30·21	— ·03	66	63	+ 6	ENE	5	b	2	70	64	0·20
	Skagen (The Skaw)	30·12	68	E	3	b	30·08	— ·09	67	62	+ 4	E	3	b	2	75	54	—
	Fanö	29·93	70	E	5	b	29·91	— ·13	70	64	0	E	5	b	*	82	64	—
BRITISH ISLANDS.	Sumburgh Head	29·89	55	SE	3	c	29·85	— ·14	58	55	+ 7	ESE	4	bc	5	58	53	—
	Stornoway ..	29·59	60	S	4	o	29·69	— ·02	58	57	+ 2	E	0	o	2	65	48	0·07
	Wick	29·76	52	SE	3	o	29·75	— ·15	55	53	+ 3	SE	3	om	3	55	49	0·50
	Nairn	29·69	61	ENE	3	o	29·71	— ·07	63	52	— 14	E	0	tr	1	68	50	0·23
	Aberdeen... ...	29·77	53	ENE	2	bc	29·72	— ·20	58	55	+ 6	NE	2	b	4	61	50	0·02
	Leith	29·67	52	SE	2	f	29·72	— ·09	54	54	— 6	E	0	m	*	62	49	0·43
	Shields	29·66	55	E	2	bc	29·70	— ·14	60	59	+ 10	SW	3	c	2	60	50	0·02
	Spurn Head ...	29·68	60	S	4	b	29·74	— ·04	62	61	+ 7	SW	1	o	3	63	53	0·12
	York	29·60	75	E	2	b	29·70	— ·07	66	62	+ 4	W	1	b	*	78	59	0·01
	Loughborough	29·67	74	WSW	3	c	29·79	— ·01	64	61	+ 4	SW	3	bc	*	84	56	—
	Ardrossan ...	29·65	60	ESE	2	om	29·74	·00	55	53	— 4	E	0	op	0	65	53	0·75
	Malin Head ...	29·57	55	W	3	o	29·69	+ ·05	54	53	— 1	S	3	o	1	64	50	0·04
	Mullaghmore ...	29·59	58	SW	1	od	29·68	+ ·06	55	51	+ 2	SE	4	bc	3	55	48	0·03
	Belmullet ...	29·58	55	S	4	o	29·63	+ ·08	55	53	+ 1	SSE	5	b	*	56	49	0·04
	Donaghadee ...	29·62	57	SSW	2	r	29·75	+ ·01	53	53	+ 1	SE	2	m	1	57	50	0·25
	Barrow-in-Furness	29·64	59	N	3	o	29·76	·00	55	55	— 5	NW	3	o	*	70	54	0·38
	Liverpool (Bidston)	29·65	66	N	1	o	29·80	+ ·07	56	54	— 3	WNW	1	c	2	74	54	0·50
	Holyhead ...	29·59	59	WSW	1	cm	29·81	+ ·10	53	52	— 3	SSW	2	og	1	60	57	0·31
	Parsonstown ...	29·61	55	E	0	r	29·73	[illegible]	54	51	+ 3	SE	2	bc	*	55	44	0·24
	Valencia	29·60	55	SE	4	cm	29·58	+ ·02	55	52	+ 1	SE	6	o	6	56	51	0·01
	Roche's Point...	29·62	52	SSW	1	c	29·71	+ ·09	54	51	+ 3	S	4	bc	4	54	50	0·52
	Pembroke ...	29·66	54	S	4	o	29·82	+ ·15	54	53	— 2	S	3	b	3	59	50	0·02
	Scilly	29·65	54	SSW	1	r	29·87	+ ·21	58	55	+ 3	S	5	c	6	58	49	0·13
	Prawle Point ...	29·70	56	WSW	2	c	29·90	+ ·21	55	52	— 2	SSW	3	bc	3	61	49	0·03
	Jersey	29·70	66	WSW	2	c	29·95	+ ·23	55	53	— 7	W	4	og	3	68	52	—
	Hurst Castle ...	29·72	61	SSW	1	c	29·88	+ ·09	59	55	— 10	W	5	bc	2	69	54	0·06
	Dungeness ...	29·67	69	SW	1	b	29·80	+ ·06	65	61	+ 1	W	5	bc	2	74	54	—
	London	29·69	72	SW	2	bc	29·83	+ ·12	63	58	— 11	WNW	2	c	*	82	57	—
	Oxford	29·74	61	WSW	2	r	29·84	+ ·12	61	58	— 1	WSW	2	bc	*	78	56	0·17
	Cambridge ...	29·68	75	S	1	b	29·80	+ ·06	64	60	— 7	W	2	bc	*	83	56	—
	Yarmouth ...	29·71	66	SE	1	b	29·75	— ·07	63	62	+ 4	WSW	2	o	2	67	57	0·39
GERMANY.	Cuxhaven ...	29·90	70	E	4	b	29·84	— ·17	70	66	0	ESE	4	b	*	77	67	—
	Berlin	29·89	82	SE	5	b	29·87	— ·15	74	65	0	SE	5	o	*	91	72	—
	Wiesbaden ...	*	*	*	*	*	29·73	— ·18	71	66	— 3	S	2	bc	*	86	66	—
	Munich	29·82	68	SW	3	c	29·85	— ·10	65	60	— 1	W	5	c	*	79	59	—
FRANCE & NETHERLANDS.	The Helder ...	29·73	74	E	2	bc	29·71		72	67		ESE	2	b	2	86	70	—
	Brussels	*	*	*	*	*	29·64	— ·19	62	61	— 13	W	3	r	*	86	62	0·87
	Cape Gris Nez...	?	70	SW	1	b	?	?	58	56	— 14	SW	4	b	2	82	55	—
	Paris	29·73	75	SW	2	c	29·88	+ ·06	63	60	— 9	W	2	o	*	83	60	0·28
	Brest	29·82	55	WNW	2	r	?	?	56	55	— 1	WSW	3	b	4	61	48	0·89
	Lorient	29·73	57	SW	5	r	29·97	+ ·24	55	54	— 4	WSW	3	bc	4	64	54	0·04
	Rochefort ...	29·82	68	SSW	4	c	30·03	+ ·19	59	56	— 4	WNW	5	bc	2	75	52	0·08
	Belfort	29·86	75	W	1	bc	29·87	·00	63	60	— 10	W	2	r	*	87	59	0·91
	Lyons	29·78	70	S	2	c	29·93	+ ·04	60	56	— 6	NNW	1	c	*	87	56	—
	Nice...	29·89	64	SW	5	c	29·88	— ·12	60	55	— 8	NW	4	c	1	75	54	—
	Perpignan ...	29·79	72	SE	2	b	30·01	+ ·17	63	59	— 2	NW	3	bc	*	79	55	0·35
	Biarritz	29·84	61	SW	3	r	30·08	+ ·26	59	54	— 4	WSW	3	b	2	75	55	0·20
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon.	30·02	59	WNW	3	o	30·13	+ ·16	58	56	— 2	ENE	1	bc	5	63	54	0·16

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Monday, 3rd June, 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —*

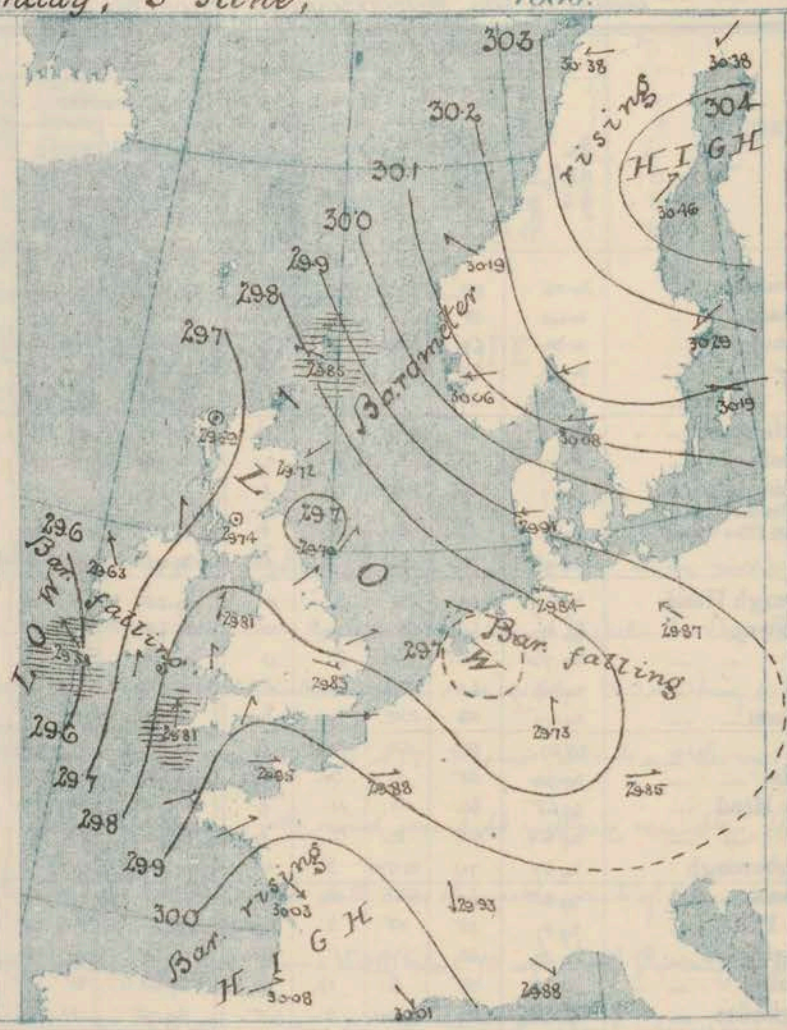
⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — *where considerable, is shewn thus.*
= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. in.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° Changes since previous morning are stated in words.*

Weather — *is shown by Letters of the Beaufort Scale.*

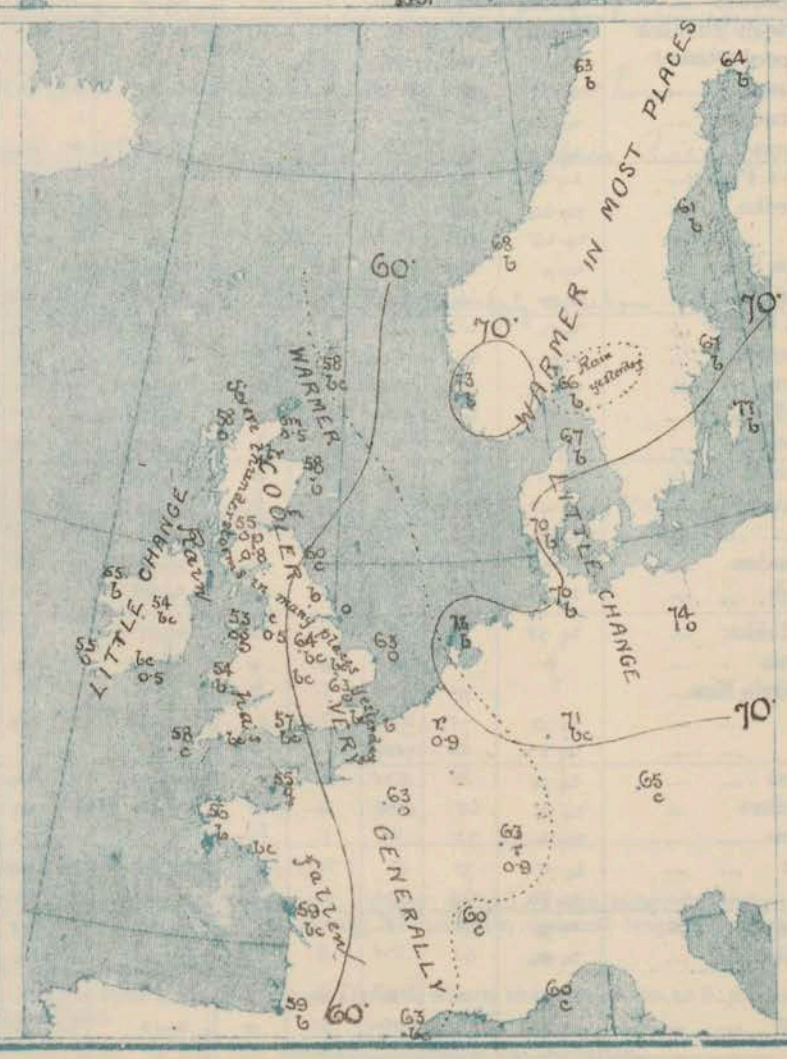
Rainfall. *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.*

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	at 8 a.m. Wet	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·00 to 30·46 ins. over Scandinavia – 30·0 ins. to 30·1 ins. and more, over Spain and the southwest of France. Lowest 29.6 ins. and less off the west of Ireland – 29.8 ins. and less, over the northeast of England, the North Sea and Belgium, 29.6 ins. at Brussels. Gradients moderate, but variable. Barometer rising over France, Great Britain and Scandinavia, falling again at Valencia, and also over Germany.

TEMPERATURE — Highest 79° at Wisby, 74° at Berlin, 73° at Skudesnaes, 72° at the Helder, 71° at Wiesbaden, 70° at Paris, 68° at Christiansund, 65° at Dungeness, 64° at Haparanda, 63° at Paris and in London. Lowest 53° at Nairn, Donaghadee and Holyhead, 54° at Malin Head and Pembroke, 55° at Balmullet and Lorient. It was as high as 91° at Berlin, 86° at Wiesbaden, Brussels and the Helder, 84° at Loughborough, 83° at Cambridge and Paris, and 82° in London yesterday.

WIND — Moderate from S. and S.E. on our western coasts generally, and from SE in the north of Scotland, and in Germany. Moderate from E. in Norway and Denmark, and from SW and W over the eastern half of England, the Channel and north of France. NW.ly in the south of France – variable and light over the Spanish Peninsula.

WEATHER — Dull and rainy, with thunderstorms, in Scotland – fine in most other places, but not settled. Rain is falling at Brussels and Belfort, the sky is clearest at Valencia, Jersey and Paris. Rain fell yesterday except in Norway, and at the southeastern stations. Severe thunderstorms have occurred in all districts.

SEA — Rough on our southwestern coasts, rather so at Dunbargh Head, moderate at Aberdeen, Brest and Lorient, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The fresh fall of the barometer at Valencia, and the falls in progress over Germany and Belgium, seem likely to bring about showery, thundery and cooler weather generally.

FORECASTS

for the 24 hours ending at NOON on 4TH JUNE 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	Varying light breezes; thunderstorms at first, fair later.	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W	S.ly winds, moderate; changeable, some rain at times.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	W.ly and SW.ly breezes, light; fair as a whole, but some thunderstorms locally, becoming colder and less settled	9 IRELAND NORTH 10 IRELAND SOUTH	S.ly winds, fresh to light; showery to fair.
		WARNINGS	None Issued

Note.—The **South Cone,** *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...							Holyhead ..	29.66	59	58	S 1	dmg	1
Sumburgh Head							Valencia						
Stornoway ...	29.71	61	61	2 0	0	2	Scilly						
Aberdeen ...							Jersey	29.72	66	60	SE 2	cm	2
Shields							Dungeness ...	29.71	73	66	SE 1	b	1
Ardrossan ...							London	29.71	81	65	S 3	b	*
Malin Head ...	29.59	59	57	SSE 4	0	2	Yarmouth ...						
Mullaghmore ...							Rochefort ...						
Belmullet ...	29.55	55	53	NE 4	0 d	*							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was highest 30·3 inches and upwards in a long and broad band extending from Central Russia to the North of Scandinavia, and high 30·1 inches and upwards off the south of Spain. The lowest readings, 29·6 inches and less, were found in a large but shallow area lying over the extreme west and southwest of our Islands; but another shallow depression with readings below 29·8 inches was reported over Asia Minor. The wind was light or moderate from the East or SouthEast over the greater part of Western and Central Europe, but SWly in Spain and variable over Algeria, Italy and the Mediterranean. Over the Northern parts of Sweden and Russia light breezes from between West and North were reported. The weather was fine generally, but overcast skies were reported at some of the Russian and Austrian stations, and rain was falling in Ireland and the west of Scotland as well as at Corunna; fog prevailed in the North East of England. Temperature had changed somewhat irregularly, but the general tendency was for an increase of warmth; readings ranged from 75° and upwards over North Germany and 70° and upwards over Italy, Tunis, the south of Russia and the central parts of South Eastern England to a little below 55° in Ireland, the north and east of Scotland and the northeast of England. The highest individual readings were 78° at Memel and Swinemunde, 77° at Riga, 76° at Neufahrwasser, 75° at Brussels and Nicolaieff, 74° in London and at Berlin and Brindisi and 73° at Belfort, St. Space; the lowest were 49° at Ulleaborg, 50° at Shields, 51° at Sumburgh Head, Parsonstown, Roches Point and Madrid, 52° at Wick, Aberdeen and Donaghadee and 53° at Mullaghmore.

In the course of the day some shallow depressions — subsidiary to the larger disturbance in the southwest advanced over England from the Southward and occasioned severe thunderstorms in many places. Temperature over England was very high during the earlier part of the day, the thermometer rising to 82° in London, 83° at Cambridge & 84° at Loughborough.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD

FROM THE 26TH MAY TO THE 1ST JUNE 1889.

The weather of the past week has been as a rule changeable and showery, with thunderstorms in many parts of the Kingdom. At the close of the period, however, the conditions over England became fine and very warm.

During the first two days a large area of low pressure with several district minima lay over France and Central Europe so that while variable breezes and fair weather prevailed in the west and north of our Islands, light NorthEasterly winds, thunderstorms and heavy rain were experienced over our Midland, eastern and southeastern counties.

On the 28th, however, the low pressure system filled up and an anticyclone appeared over Spain and the south of France. Some depressions now began to move along our extreme western coasts and the wind backed to the Swd. or SWwd. generally with some improvement in the weather over England but with rain in Ireland and Scotland. During the remainder of the week three large depressions appeared in the west. The first two of these, which were noticed respectively on the 28th and 30th days were comparatively shallow and occasioned no material increase in the force of the wind, but the third which appeared on the 1st June was somewhat deeper and produced Sly. or Sly. gales on the Irish Coasts. In each case a good deal of rain was experienced in the west, and as shallow secondary disturbances were occasionally formed over Great Britain the weather was in a showery state generally with thunderstorms in many places.

Temperature was rather high at the commencement of the week, but afterwards fell decidedly, the maximum readings of the 27th and 28th days being below 60° in most parts of the Kingdom. Towards the close of the time, however, a rapid rise took place over England and on the 1st June the thermometer reached 72° at York and 75° in London.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h hail; l. lightning; m misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Tuesday, 4th June, 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·41	61	Z	0	b	30·44	+·06	59	50	−5	ENE	4	bc	*	72	46	-
	Hernösand ...	? 30·44	60	Z	0	b	30·45	−·01	62	54	+1	Z	0	b	*	84	46	-
	Stockholm ...	30·31	62	E	2	b	30·36	+·07	70	59	+3	NNE	2	b	*	78	52	-
	Wisby	30·21	68	E	4	b	30·25	+·06	68	59	−9	E	4	b	*	82	61	-
	Bodö	30·30	63	Z	0	b	30·30	−·08	72	58	+9	ENE	4	b	2	?	45	-
	Christiansund...	30·10	75	E	1	b	30·19	·00	72	63	+4	SE	4	b	1	86	66	-
	Skudesnaes ...	30·07	73	E	4	b	30·14	+·08	71	62	−2	E	6	b	3	80	68	-
	Christiania Fjord (Færder)	30·13	71	ENE	4	b	30·26	+·05	67	61	+1	NNE	5	b	1	72	64	-
	Skagen (The Scaw)	30·06	68	E	3	bc	30·15	+·07	68	63	+1	ESE	3	c	2	81	64	-
	Fanö	29·97	70	ESE	5	b	30·04	+·13	64	62	−6	ENE	4	r	*	82	63	0·22
BRITISH ISLANDS.	Sumburgh Head	29·86	55	ESE	3	b	30·02	+·17	53	51	−5	SSE	3	o	6	61	50	-
	Stornoway ..	29·72	55	SE	2	c	29·86	+·17	54	53	−4	S	6	bc	5	58	50	0·12
	Wick	29·77	53	Z	0	m	30·00	+·25	58	52	+3	S	3	b	3	60	50	0·10
	Nairn	29·74	62	Z	0	bc	29·95	+·24	59	53	+6	SSW	3	b	2	65	52	0·08
	Aberdeen... ...	29·84	59	S	2	bc	30·07	+·35	60	53	+2	S	2	b	3	63	49	0·07
	Leith	29·86	58	S	1	c	30·09	+·37	61	53	+7	SW	2	bc	*	69	52	0·09
	Shields	29·86	62	E	1	c	30·12	+·42	60	55	0	SSW	2	c	2	68	50	-
	Spurn Head ...	29·92	66	WSW	2	b	30·19	+·43	60	57	−2	WSW	2	b	3	72	54	-
	York	? 29·87	68	W	1	b	? 30·13	+·43	61	56	−5	W	3	b	*	72	52	-
	Loughborough	29·96	69	WSW	3	b	30·21	+·42	61	57	−3	WSW	2	c	*	72	53	-
	Ardrossan ...	29·83	57	SSE	4	b	30·07	+·33	55	52	0	S	5	b	4	59	52	-
	Malin Head ...	? 29·65	60	S	6	og	? 29·63	+·14	56	50	+2	SSW	7	bm	4	64	49	-
	Mullaghmore ...	29·61	51	S	6	rg	29·94	+·26	55	51	0	SSW	7	c	6	62	? 49	0·23
	Belmullet ...	29·54	57	S	6	b	29·94	+·31	55	53	0	SW	4	o	*	61	54	0·19
	Donaghadee ...	29·80	57	SW	6	bc	30·07	+·32	58	55	+5	SW	5	b	3	60	51	0·01
	Barrow-in-Furness	29·89	59	ESE	2	b	30·09	+·33	55	53	0	S	4	b	*	60	53	-
	Liverpool (Bidston)	29·90	67	SSW	2	b	30·17	+·37	62	53	+6	WSW	1	b	2	68	51	-
	Holyhead ...	29·87	57	SSW	4	bc	30·15	+·34	57	54	+4	SSW	4	b	4	61	52	0·06
	Parsonstown ...	29·70	58	SE	2	c	30·08	+·35	56	50	+2	SW	2	bc	*	63	49	0·07
	Valencia	29·65	55	S	7	bm	30·06	+·48	56	52	+1	S	6	bem	5	57	51	0·15
	Roche's Point...	29·77	55	SSW	6	b	30·14	+·43	54	51	0	SSW	4	b	4	56	51	0·18
	Pembroke ...	29·89	53	S	6	r	30·20	+·38	54	54	0	S	2	bm	4	56	52	0·03
	Scilly	29·91	58	SSW	5	c	30·18	+·37	60	57	+2	SSW	4	bm	5	60	52	-
	Prawle Point ...	30·03	56	SSW	4	c	30·25	+·35	59	55	+4	SSW	2	bc	2	59	51	-
	Jersey	30·07	65	SSW	2	b	30·28	+·33	60	58	+5	SSW	3	og	3	65	54	-
	Hurst Castle ...	30·07	59	SW	5	b	30·27	+·39	56	56	−1	SW	3	dm	2	67	? 55	0·02
	Dungeness ...	30·02	68	WSW	6	bc	30·24	+·44	59	56	−6	SW	3	b	2	69	53	-
	London	30·01	67	SW	2	b	30·24	+·41	63	58	0	WSW	2	c	*	73	50	-
	Oxford	30·05	58	SW	3	b	30·24	+·40	57	56	−4	S	2	od	*	68	54	0·01
	Cambridge ...	30·02	68	SW	2	b	30·23	+·43	64	59	0	WSW	1	c	*	73	47	-
GERMANY.	Yarmouth ...	29·93	70	WNW	2	b	30·18	+·43	63	60	0	WNW	2	b	1	70	51	0·03
	Cuxhaven ...	29·88	70	E	3	b	30·03	+·19	66	65	−4	S	1	f	*	76	66	0·34
	Berlin	29·88	80	SE	1	c	30·02	+·15	74	66	0	SE	1	c	*	88	70	-
	Wiesbaden ...	*	*	*	*	*	30·15	+·42	61	57	−10	SW	2	o	*	75	61	-
	Munich	30·01	59	W	3	r	30·13	+·28	59	59	−6	W	2	r	*	72	57	1·06
FRANCE & NETHERLANDS.	The Helder ...	29·89	61	WNW	3	c	30·11	+·40	57	55	−15	WNW	3	b	3	73	57	0·32
	Brussels 9AM	*	*	*	*	*	30·26	+·62	59	55	−3	WNW	3	b	*	67	52	0·04
	Cape Gris Nez...	?	55	WSW	5	b	?	?	59	55	+1	SW	2	b	2	63	52	-
	Paris	30·10	65	NW	2	bc	30·29	+·41	60	57	−3	Z	0	b	*	71	47	-
	Brest	?	58	S	6	r	?	?	57	56	+1	SSW	3	o	5	?	46	0·04
	Lorient	30·12	61	SW	4	b	30·23	+·26	60	58	+5	SW	2	o	5	64	55	-
	Rochefort ...	30·21	64	NW	3	b	30·30	+·27	61	57	+2	NE	3	b	2	70	48	-
	Belfort	30·01	62	W	1	o	30·19	+·32	61	58	−2	W	1	b	*	66	55	0·43
	Lyons	30·08	64	NW	3	c	30·22	+·29	60	51	0	NNW	4	b	*	70	57	0·04
	Nice...	29·87	64	NNE	1	bc	29·89	+·01	66	59	+6	NE	5	c	0	70	55	-
	Perpignan ...	30·12	69	NW	4	b	30·12	+·11	66	55	+3	NW	5	b	4	72	60	-
	Biarritz	30·16	64	NNE	4	b	30·21	+·13	58	55	−1	E	2	b	2	68	52	-
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon.	30·13	61	NW	4	b	30·07	−·06	64	55	+6	NE	3	b	6	67	54	-

For Explanation of Columns, see p. 4.

† Receipts see table for insertion in Charts on p. 2

WEATHER CHARTS

for 8 a.m. on Tuesday, 4TH June 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus —

→ = forces above 10, ⟶ = forces 8 to 10,
⟶ = forces 5 to 7, ⟶ = forces 1 to 4,
⊙ = dead calm.

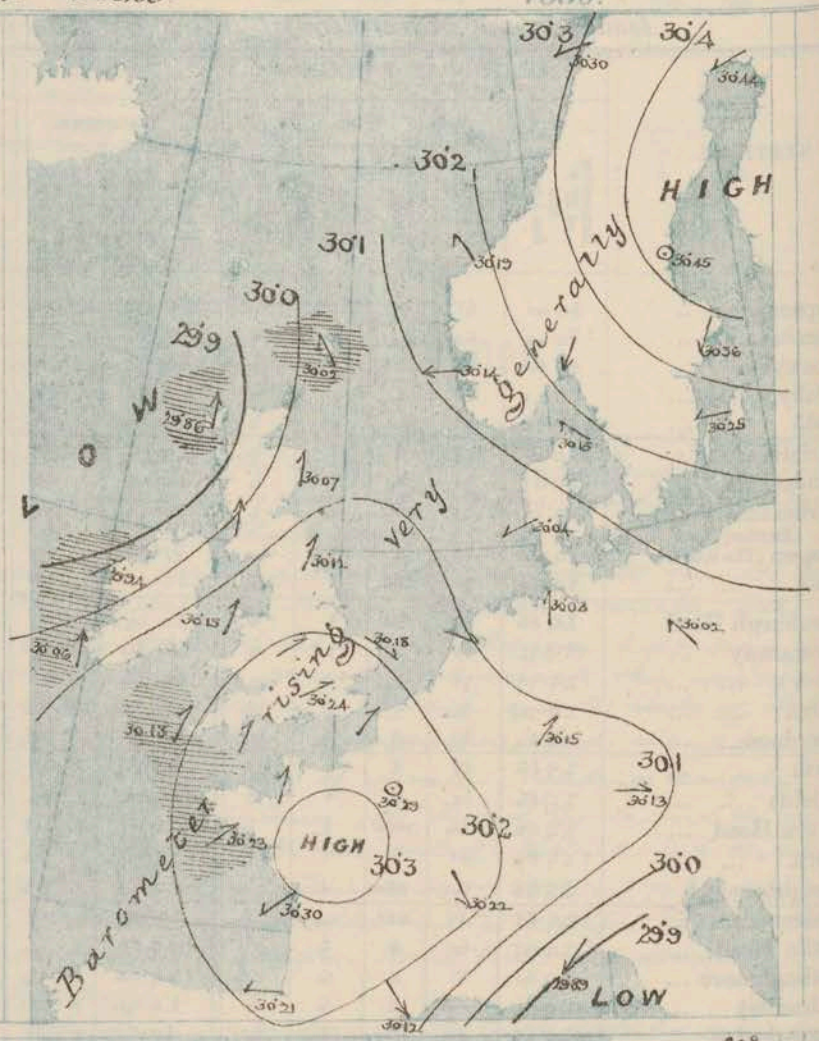
Sea Disturbance — where considerable, is shown thus.

= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of July.
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·968



TEMPERATURE, & WEATHER at 8 A.M.

with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

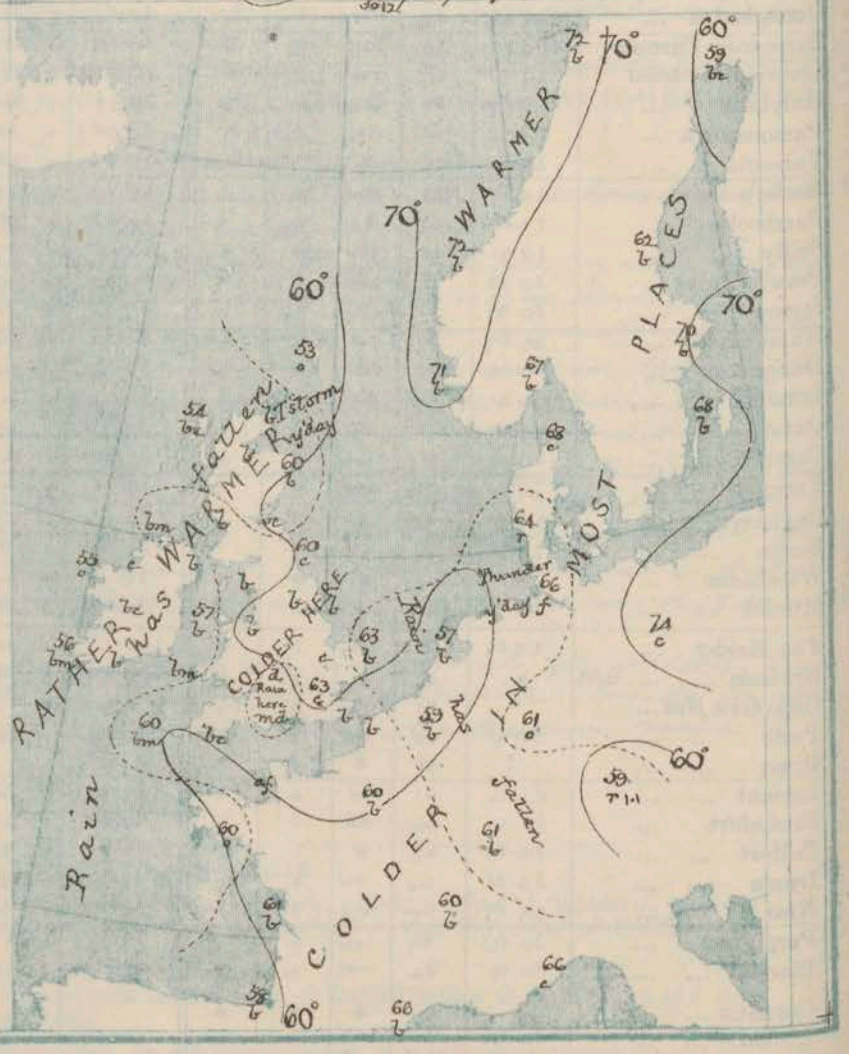
Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 inch or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

for the month of June

STATIONS.	TEMPERATURE. Daily Max	Daily Min	at 8 a.m. Dry	at 8 a.m. Wet	RAINFALL. (Inches.)
Sumburgh Head	54·3	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·2	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE – The Temperature means are for the 15 years 1871–85, the Rainfall means are mainly those for the 20 years 1866–85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·10 ins: to 30·45 ins:, over Scandinavia, the Baltic, and Finland. Highest, 30·20 ins: to 30·30 ins:, over France, and the north of England. Lowest, 29·9 ins: and less, off our extreme northwest coasts, 30·1 ins: and less, over Denmark and Germany, and also over the southeastern parts of Spain. Gradients moderate in the west and north, slight elsewhere. Barometer rising very generally, briskly in the west — falling again at Lisbon.

TEMPERATURE — Highest, 74° at Berlin, 72° at Bodö and Christiansund, 71° at Skudenaes, 70° at Stockholm, 68° at Wick and the Scaw, 66° at Cuxhaven, 63° in London. Lowest, 53° at Lunenburg Head, 54° at Stornoway and Pembroke, 55° at Belmullet, 56° at Biarritz. It rose to between 80° and 86° on the Norwegian coast yesterday evening, but did not exceed 73° at our own stations all day.

WIND — S. to W. in our Islands, light in the east, strong in the west and northwest. E. (NE to SE) in Scandinavia and Denmark, variable over France. NE. in the Gulf of Genoa and at Lisbon. A strong S. gale was felt in the extreme west of Ireland last night.

WEATHER — Cloudy in the northwest of Ireland, dull with wet mist over the southern parts of England and the Channel. Clear and bright elsewhere. Some rain has fallen in west and north and large quantities over some parts of Germany. Thunderstorms were again experienced in Scotland and some parts of Germany yesterday.

SEA — Rough in extreme north, west, and southwest, slight in the Channel, smooth on our east coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Fine weather seems likely to prevail over the major part of our Islands. The wind in the west is likely to back towards SE. or E.

FORECASTS

for the 24 hours ending at NOON on 5th JUNE 1889.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S. winds, moderate or fresh; cloudy, some rain.
1 SCOTLAND EAST 2 ENGLAND N.E.	S. breezes, light; fair as a whole, local showers possible.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	SW. breezes, light; wet mists at times, finer later.
6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W.	S. winds, moderate; fair generally.
9 IRELAND NORTH 10 IRELAND SOUTH	S. to SE. winds, moderating; fine to unsettled.
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30·04	60	64	ESE 6	bcm	4	Holyhead ...	29·85	58	54	SSW 4	b	4
Sumburgh Head	29·85	59	56	ESE 5	b	6	Valencia	29·54	57	53	S 7	cm	6
Stornoway ...	29·72	53	53	S 2	r	2	Scilly	29·82	58	55	S 6	o	6
Aberdeen ...	29·79	53	52	E 2	op	4	Jersey	30·04	63	58	SE 2	b	2
Shields	29·80	63	60	WNW 2	o	2	Dungeness ...	29·90	61	56	WSW 6	bc	6
Ardrossan ...	29·79	59	55	S 2	b	2	London	29·93	72	60	WSW 2	bc	*
Malin Head ...	29·65	63	61	S 5	bc	3	Yarmouth ...	29·84	66	64	WNW 2	c	2
Mullaghmore ...	29·61	61	53	SE 6	c	5	Rochefort ...	30·17	69	66	NW 4	b	2
Belmullet ...	29·52	58	56	SSE 7	opu	*							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was highest, 30·4 ins. and upwards, over Finland and the north of Sweden, but high, 30·1 ins. and upwards, over Central Algeria, Morocco, and the south of Spain. The lowest readings, 29·6 ins. and less, were found in a depression lying off the southwest of Ireland, but a small secondary disturbance, with readings below 29·7 ins., existed off the coast of Berwickshire, and another with similar readings over the Netherlands, while a large shallow depression, with readings below 29·8 ins. was reported over Bulgaria and Roumelia. The wind was moderate to fresh from the SE.ly in the west and extreme north of our Islands, and E.ly over the greater part of Russia and Northern Europe. Over the East of England, however, and in the north of Italy the wind was SW.ly, while over the Central and southern parts of France it was chiefly NW.ly, and in Spain and Algeria light and variable. The weather was thundery in Scotland, and rainy in Belgium and the east of France as well as in Northern Italy, but fine in nearly all other localities. Temperature has risen a little in Ireland and the north and east of Scotland, as well as in Scandinavia, but fallen elsewhere; readings ranged from a little above 75° over North Germany and the Baltic Provinces, and from a little above 70° over the Mediterranean and the south of Russia to a little below 55° at many of our western and northern stations and to very little above 40° in the neighbourhood of the White Sea. The highest individual readings were 77° at Wisby, Riga and Swinemunde, 76° at Memel and Odessa, 74° at Berlin, Nicolaieff and Constantinople, 73° at Rome, Brindisi, Cagliari, La Galle, and Sfax, and 72° at Helder and Kharkov; the lowest were 41° at Archangel, 53° at Nairn, Donaghadee, and Holyhead, 54° at Leith, Malin Head, Parsontown, Roche's Point and Pembroke, and 55° at Wick, Ardrossan, Belmullet and Mullaghmore.

In the course of the day the depression off the southwest of Ireland travelled northward and occasioned fresh to strong SE.ly gales on our extreme western coasts. The disturbances over Holland and our northeast coasts appear to have filled up. Heavy thunderstorms occurred at some of the Scotch stations during the day.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; [illegible]

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Wednesday 5th June 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·41	57	Z	0	p	30·39	−·05	60	58	+1	SW	2	b	*	72	52	—
	Hernösand ...	30·41	63	Z	0	b	30·37	−·08	62	57	+1	SSE	2	b	*	79	48	
	Stockholm ...	30·38	67	ENE	2	b	30·38	+·02	70	57	0	NNW	2	b	*	79	50	—
	Wisby	30·33	59	NE	2	b	30·34	+·09	57	53	−11	NNW	2	b	*	79	?	—
	Bodö	30·31	71	Z	0	b	30·32	+·02	69	58	−3	E	2	b	1	72	53	—
	Christiansund...	30·27	73	NE	2	b	30·47	+·28	59	57	−13	WSW	3	0	2	82	55	—
	Skudesnaes ...	30·32	63	NW	2	0	30·44	+·30	61	59	−10	NNW	4	0	3	?	57	0·24
	Christiania Fjord (Farder)	30·31	70	ENE	3	bc	30·29	+·13	66	62	−1	NNE	3	b	1	72	64	—
	Skagen (The Scaw)	30·28	69	E	1	bc	30·29	+·24	68	60	0	SW	1	bc	1	82	64	—
	Fanö	30·26	69	E	4	r	30·32	+·29	68	61	+4	ENE	4	bc	*	72	61	0·04
BRITISH ISLANDS.	Sumburgh Head	30·22	57	SSW	2	b	30·50	+·48	57	53	+4	SSE	1	b	1	60	48	—
	Stornoway ..	30·19	57	S	6	bc	30·43	+·57	56	54	+2	S	2	b	2	58	49	—
	Wick	30·27	65	SW	1	b	30·55	+·55	61	55	+3	E	1	b	0	68	43	—
	Nairn	30·23	65	W	3	b	30·46	+·51	57	54	−2	Z	0	bm	0	68	41	—
	Aberdeen... ...	30·28	63	S	2	b	30·50	+·43	64	55	+4	ENE	1	b	2	66	45	—
	Leith	30·29	64	SW	1	b	30·48	+·39	60	58	−1	SW	1	bc	*	70	44	—
	Shields	30·32	64	ENE	1	c	30·48	+·36	59	54	−1	ENE	1	c	2	70	49	—
	Spurn Head ...	30·34	59	SE	1	b	30·50	+·33	58	55	−2	NE	2	b	3	67	52	—
	York	30·27	69	N	1	b	30·43	+·30	59	55	−2	NNE	1	b	*	71	47	—
	Loughborough	30·38	71	NW	1	b	30·49	+·26	58	57	−3	NNE	1	cm	*	75	50	—
	Ardrossan ...	30·29	59	SSW	2	b	30·48	+·41	59	54	+4	Z	0	bw	0	60	47	—
	Malin Head ...	30·30	60	NNW	1	b	30·44	+·61	57	54	+1	ENE	1	b	1	63	50	—
	Mullaghmore ...	30·25	62	SW	4	bc	30·45	+·51	58	53	+3	N	1	bw	1	64	45	—
	Belmullet ...	30·24	58	SW	5	b	30·43	+·49	58	56	+3	SSW	2	bc	*	58	51	—
	Donaghadee ...	30·30	62	SW	5	b	30·49	+·42	51	51	−7	ESE	3	m	2	66	51	—
	Barrow-in-Furness	30·32	60	WNW	3	b	30·40	+·31	56	53	+1	N	2	bc	*	66	50	—
	Liverpool (Bidston)	30·36	63	NNW	1	b	30·47	+·30	59	55	−3	NW	1	b	2	68	52	—
	Holyhead ...	30·35	56	SSW	2	b	30·47	+·32	61	56	+4	Z	0	bw	0	61	48	—
	Parsonstown ...	30·26	63	Z	0	b	30·47	+·39	56	53	0	Z	0	c		66	46	—
	Valencia	30·28	56	SE	4	bcm	30·46	+·40	58	54	+2	SE	1	cm	2	58	50	—
	Roche's Point...	30·33	57	SSW	4	b	30·45	+·31	55	52	+1	SSE	2	c	4	60	52	—
	Pembroke ...	30·36	57	S	1	bc	30·43	+·23	60	57	+6	NE	2	bcf	3	60	49	—
	Scilly	30·33	58	SSE	2	c	30·37	+·19	57	53	−3	NE	4	c	4	62	53	—
	Prawle Point ...	30·36	61	SSW	1	b	30·39	+·14	66	57	+7	NE	3	b	2	66	50	—
	Jersey	30·35	68	N	2	bm	30·36	+·08	64	57	+4	NE	3	bm	3	68	55	—
	Hurst Castle ...	30·37	60	SW	3	b	30·40	+·13	64	61	+8	ENE	3	bm	2	65	53	—
	Dungeness ...	30·32	60	WSW	4	bc	30·36	+·12	62	56	+3	NE	4	bc	3	68	50	—
	London	30·33	73	NW	1	c	30·42	+·18	64	56	+1	ENE	2	bm	*	76	55	—
	Oxford	30·36	65	NNW	1	b	30·43	+·19	63	60	+6	NNW	1	b	*	72	50	—
	Cambridge ...	30·34	69	N	1	b	30·43	+·20	63	56	−1	NNE	1	b	*	74	48	—
	Yarmouth ...	30·33	62	E	1	b	30·41	+·23	58	55	−5	N	4	b	3	66	51	—
GERMANY.	Cuxhaven ...	30·18	69	NW	2	b	30·26	+·23	66	63	0	E	3	m	*	71	64	—
	Berlin	30·12	77	NNW	2	b	30·23	+·21	73	63	−1	E	4	b	*	86	66	0·16
	Wiesbaden ...	*	*	*	*	*	30·22	+·07	69	64	+8	N	3	bc	*	70	?	—
	Munich	30·22	59	SW	1	r	30·24	+·11	62	61	+3	N	1	0	*	64	57	1·22
FRANCE & NETHERLANDS.	The Helder ...	30·31	59	NNW	2	b	30·32	+·21	59	58	+2	NNE	2	0	3	61	53	—
	Brussels	*	*	*	*	*	30·31	+·05	61	58	+2	NNE	2	0	*	71	55	—
	Cape Gris Nez...	?	60	SW	1	b	?	?	57	55	−2	NE	3	b	2	64	54	—
	Paris	30·31	70	NNE	2	bc	30·28	−·01	60	56	0	NNE	3	b	*	75	53	—
	Brest	?	60	NNW	1	bc	?	?	57	53	0	E	4	b	5	63	50	—
	Lorient	30·23	65	W	2	b	30·30	+·07	59	56	−1	NE	4	b	5	68	53	—
	Rochefort ...	30·28	73	ENE	4	b	30·22	−·08	61	59	0	NE	5	b	2	79	52	—
	Belfort	30·19	63	S	1	0	30·12	−·09	66	63	+5	E	2	c	*	70	58	—
	Lyons	30·14	68	N	4	b	30·11	−·11	60	56	0	NNW	2	0	*	73	58	—
	Nice...	29·91	73	SW	5	bc	29·91	+·02	76	61	+10	ENE	5	b	0	79	64	—
PENINSULA.	Perpignan ... Biarritz	30·17	67	NNE	3	b	30·10	−·11	60	57	+2	SW	2	b	3	70	57	—
	Corunna ... ... Lisbon	*	*	*	*	*	30·05	−·13	68	65	+1	NE	1	c	5	70	55	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Wednesday 5TH JUNE *1889.*

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevailing winds. They fly with the wind and their barbs and feathers refer to force, thus —*

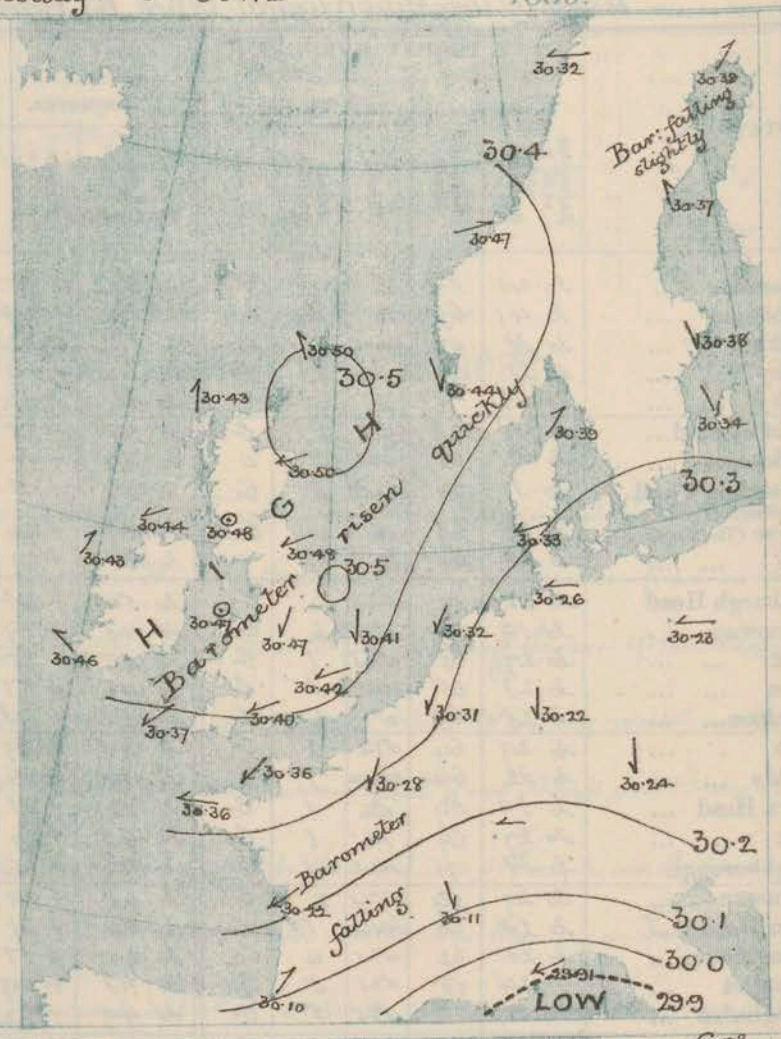
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = force 1 to 4;
⊙ = dead calm.

Sea Disturbance — *where considerable, is shewn thus.*
= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. in.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° Changes since previous morning are stated in words.*

Weather is shown by Letters of the Beaufort Scale.

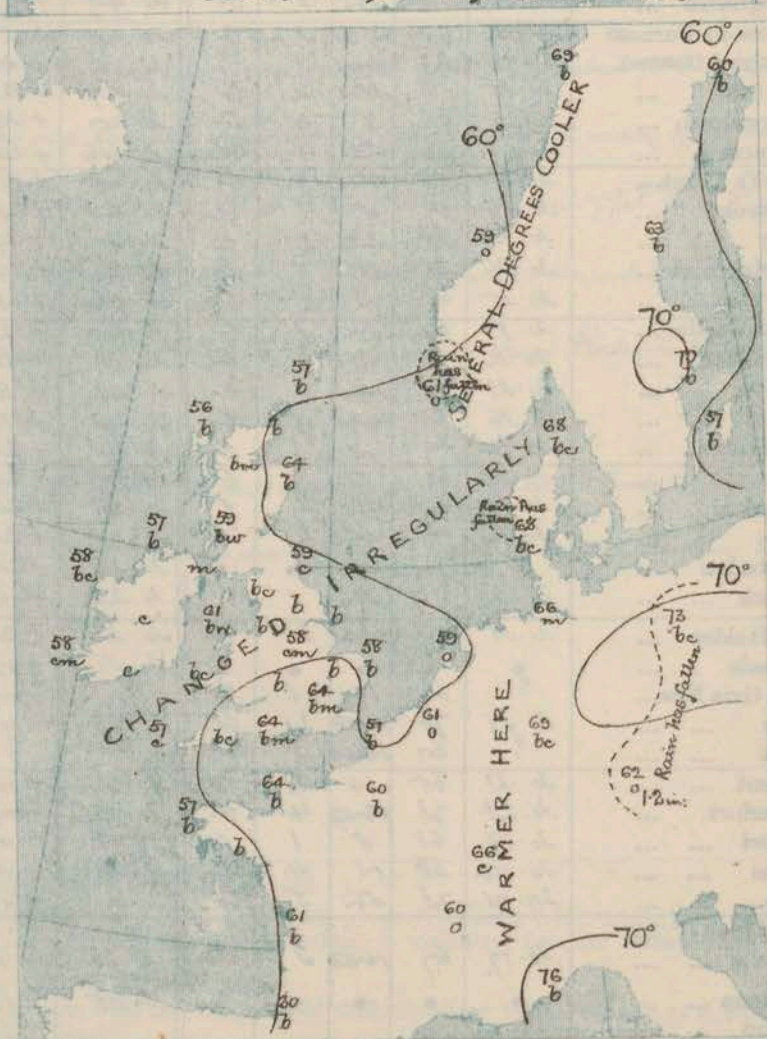
Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June.

STATIONS	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	at 8 a.m. Wet	RAINFALL. (Inches)
Sumburgh Head	54·3	46·1	50·4	48·7	3·07
Stornoway	57·6	46·0	52·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	55·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·2	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·62

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866-85.



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·40 in: to 30·56 in: in a large high pressure area covering the British Isles, the North Sea and west of Norway.
Lowest, About 29·9 in: in the extreme south and southwest of France.
Gradients very slight in our Islands, slight generally elsewhere.
Barometer rising in the United Kingdom, most in the west and north, falling a little over France.

TEMPERATURE — Highest, 76° at Nice, 73° at Berlin, 70° at Stockholm, 69° at Bodö and Wiesbaden, 68° at the Scaw.
Lowest, 51° at Donaghadee, ~~[illegible]~~, 56° at Stornoway, 57° at Nairn, Malin Head and Scilly.
The highest of the maxima recorded yesterday were 86° at Berlin, 79° at Aberdeen and Nice, 76° in London, 75° at Loughborough and Kew, 74° at Cambridge, 73° at Oxford and 72° at York.

WIND — Light N^ly in Germany and the east of France, moderate NE^ly over the Channel.
Very light and variable over the greater part of the United Kingdom and Norway.

WEATHER — Very fine and quiet generally; hazy in a few places and rather cloudy on our southeastern coast and in the west of Norway.
Heavy rain fell yesterday at Munich, and smaller quantities at Berlin, Paris, and Skudesnes

SEA — Moderate about the mouth of the English Channel, slight to very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Fine dry weather is likely to continue, with NE^ly winds; high day, and cool night temperatures.

FORECASTS

for the 24 hours ending at NOON on 6th JUNE *1889.*

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Calms and light NE^ly breezes; fine dry.	6 SCOTLAND WEST 7 ENGLAND N. W.	Same as N°s 0 and 1.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	NE^ly breezes, moderate or light; fine, dry.	8 ENGLAND S. W	Same as N° 5
		9 IRELAND NORTH	Same as N°s 0 and 1.
		10 IRELAND SOUTH	SE^ly and E^ly winds, light to moderate; fair generally.
		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *points upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30·25	64	61	S 2	r	6
Sumburgh Head	30·04	57	53	SSW 3	b	6
Stornoway ...	30·05	58	57	S 7	c	6
Aberdeen ...	30·20	63	53	SSE 3	b	3
Shields	30·24	70	59	W 3	b	2
Ardrossan ...	30·22	60	56	SSW 3	b	3
Malin Head ...	30·12	63	62	SW 5	b	3
Mullaghmore ...	30·16	63	54	SSW 6	bc	5
Belmullet ...	30·15	58	57	SSW 6	bc	*

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Holyhead ...	30·27	60	56	SSW 4	b	4
Valencia	30·22	57	54	SSE 5	cm	5
Scilly	30·29	61	59	S 3	bc	6
Jersey	30·34	63	60	SSW 2	cm	2
Dungeness ...	30·30	62	58	SW 4	bc	3
London	30·31	72	61	W 3	bc	*
Yarmouth ...	30·28	63	60	NNE 1	b	2
Rochefort ...	30·30	76	73	NE 4	b	1

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was highest 30·4 ins: and upwards over Finland and the north of Sweden, and high 30·3 ins: and upwards over Central France. The lowest readings, 29.8 ins: and less were found in a large depression lying over the Black Sea and its neighbourhood, and also in a smaller depression lying over Centre, Italy, but another low pressure system with readings below 29.9 ins: was reported to the north-westward of our Islands. The wind was S. to SW. over the greater part of the United Kingdom, and strong to a gale in force on our extreme west and northwest coasts. Over northern, eastern and Central Europe, however, light to moderate E. breezes were reported, while over Italy, Algeria and the Mediterranean the winds was very variable. The weather was fine in nearly all parts of the Continent, but overcast skies were reported in Italy, and slight drizzling rain was falling at some of the English Stations. Temperature had fallen a little over Russia, north Germany the Netherlands, and the E. central parts of England, but risen in most other localities; readings ranged from a little above 70° in Norway, North Germany France and the S. of Italy, to 40° and less in the neighbourhood of the White Sea, and to a little below 55° at some of our more W. and extreme N. stations. The highest individual readings were 75° at Dunmore, 74° at Berlin and Brindisi, 73° at Nicolaieff, 72° at Bodö and Christiansund, and 71° at Gudenaes, Odessa, Les Salles and Sfax; the lowest were 35° at Archangel, 53° at Sumburgh Head, 54° at Stornoway, Roche's Pt. and Pembroke, 55° at Ardrossan, Belmullet, Mullaghmore, and Barrow-in-Furness.

In the course of the day the high pressure system over France spread N. and the barometer rose in nearly all parts of W. Europe. The weather remained fine generally, and temperature over England rose to a maximum of 75° at Loughborough, and 76° in London.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Thursday, 6th June, 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·27	58	SW	2	b	? 30·21	-·18	64	58	+ 4	SW	2	b	*	68	45	-
	Hernösand ...	30·33	60	Z	0	bc	30·32	-·05	65	59	+ 2	ENE	2	b	*	77	54	-
	Stockholm ...	30·25	67	Z	0	b	30·26	-·12	71	61	+ 1	Z	0	c	*	82	55	-
	Wisby	30·31	60	SE	4	b	30·30	-·04	67	56	+ 10	S	2	b	*	75	52	-
	Bodö	30·42	53	WSW	4	o	30·47	+·15	49	48	- 20	W	2	o	2	70	48	0·04
	Christiansund...	30·54	57	ENE	2	f	30·39	-·08	57	54	- 2	NE	5	c	2	?	52	-
	Skudesnaes ...	30·39	61	NNW	6	b	30·30	-·14	66	62	+ 5	E	2	b	2	?	55	-
	Christiania Fjord (Færder)	30·30	71	WSW	3	b	30·27	-·12	67	63	+ 1	N	3	b	1	73	66	-
	Skagen (The Scaw)	30·32	66	N	1	b	30·28	-·11	69	64	+ 1	W	2	b	1	79	59	-
	Fanö	30·32	67	E	3	b	30·31	-·02	71	64	+ 3	SE	1	b	*	77	57	-
BRITISH ISLANDS.	Sumburgh Head	30·52	58	ESE	1	b	30·35	-·15	53	51	- 4	NE	1	bc	1	62	48	-
	Stornoway ..	30·42	59	E	2	b	30·26	-·17	55	55	- 1	S	3	bc	3	64	44	-
	Wick	30·47	56	E	3	b	30·28	-·27	58	55	- 3	S	1	b	1	68	48	-
	Nairn	30·48	63	ENE	1	bc	30·30	-·16	59	56	+ 2	Z	0	b	0	63	46	-
	Aberdeen... ...	30·49	58	ENE	1	b	30·36	-·14	57	52	- 7	ENE	1	b	2	65	45	-
	Leith	30·43	59	NE	1	b	30·34	-·14	60	54	0	E	1	b	*	66	45	-
	Shields	30·44	60	NW	2	b	30·30	-·18	53	52	- 6	Z	0	am	2	65	49	-
	Spurn Head ...	30·36	59	NNE	4	b	30·23	-·27	53	52	- 5	NNE	5	o	4	65	50	-
	York	? 30·38	68	ENE	2	b	? 30·24	-·19	61	58	+ 2	NNE	3	c	*	74	50	-
	Loughborough	30·36	69	NE	4	b	30·24	-·23	56	55	- 2	NE	3	ogm	*	76	53	-
	Ardrossan ...	30·41	64	WNW	1	b	30·28	-·20	60	54	+ 1	NE	3	bm	1	68	51	-
	Malin Head ...	30·42	55	ENE	1	b	30·28	-·16	55	52	- 2	ESE	1	bm	0	58	50	-
	Mullaghmore ...	30·41	62	NW	1	bc	30·29	-·16	59	56	+ 1	NNW	1	bw	1	63	50	-
	Belmullet ...	30·44	57	NW	1	b	30·29	-·14	57	55	- 1	WSW	1	b	*	63	49	-
	Donaghadee ...	30·43	55	NE	2	bc	30·30	-·19	58	55	+ 7	NW	3	b	1	60	50	-
	Barrow-in-Furness	30·48	64	NW	2	b	30·25	-·15	59	54	+ 3	NE	1	b	*	69	50	-
	Liverpool (Bidston)	30·38	58	WNW	1	b	30·25	-·22	59	53	0	NE	1	om	2	64	51	-
	Holyhead ...	30·40	55	N	1	c	30·25	-·22	56	53	- 5	NE	3	bw	2	62	51	-
	Parsonstown ...	30·38	68	Z	0	c	30·29	-·18	55	52	- 1	Z	0	c	*	70	45	-
	Valencia	30·41	59	WSW	1	bcm	30·28	-·18	63	57	+ 5	NE	1	bm	1	65	47	-
	Roche's Point...	30·40	61	S	1	b	30·24	-·21	58	55	+ 3	NW	1	bc	3	62	50	-
	Pembroke ...	30·33	62	NNE	4	bc	30·21	-·22	62	58	+ 2	NNE	2	bm	2	64	53	-
	Scilly	30·29	59	NNE	4	bm	30·15	-·22	59	56	+ 2	NNE	2	c	4	61	54	-
	Prawle Point ...	30·30	63	ENE	1	b	30·15	-·24	58	55	- 8	N	3	og	2	67	50	-
	Jersey	30·25	68	ENE	4	bm	30·10	-·26	58	57	- 6	NE	4	om	3	70	57	-
	Hurst Castle ...	30·27	68	NW	3	m	30·15	-·25	60	59	- 4	NE	3	om	2	72	58	-
	Dungeness ...	30·25	59	NE	5	cm	30·11	-·25	62	59	0	NE	4	c	4	68	55	-
	London	30·30	67	N	2	b	30·17	-·25	59	57	- 5	NNE	2	og	*	75	55	-
	Oxford	30·32	61	NE	3	b	30·20	-·23	55	55	- 8	NE	2	o	*	71	53	-
	Cambridge ...	30·34	64	NE	2	o	30·20	-·23	57	56	- 6	N	1	o	*	71	54	-
	Yarmouth ...	30·31	57	NNE	4	c	30·19	-·22	59	58	+ 1	NNE	2	b	3	62	52	-
GERMANY.	Cuxhaven ...	30·28	67	E	3	m	30·28	+·02	66	62	0	ESE	3	b	*	74	65	-
	Berlin	30·22	75	N	5	b	30·27	+·04	69	59	- 4	NE	2	b	*	86	61	-
	Wiesbaden ...	*	*	*	*	*	30·15	-·07	72	63	+ 3	NE	3	b	*	84	63	0·04
	Munich	30·16	65	NE	2	b	30·20	-·04	66	61	+ 4	E	5	b	*	73	54	-
FRANCE & NETHERLANDS.	The Helder ...																	
	Brussels ... 9 AM	*	*	*	*	*	30·11	-·20	70	65	+ 9	E	3	b	*	?	61	-
	Cape Gris Nez...	?	55	NE	6	f	?	?	55	55	- 2	NE	5	f	? 6	63	54	-
	Paris	30·13	68	NNE	3	bc	30·01	-·27	69	66	+ 9	ENE	3	b	*	75	?	-
	Brest	?	68	E	4	b	?	?	60	58	+ 3	ENE	3	o	2	75	52	-
	Lorient	30·15	68	NNE	5	b	30·05	-·25	59	58	0	NE	3	o	3	72	59	-
	Rochefort ...	30·06	74	NE	5	bc	30·02	-·20	66	61	+ 5	NE	3	m	2	79	57	-
	Belfort	30·01	76	E	2	c	30·06	-·06	69	65	+ 3	E	1	b	*	76	60	-
	Lyons	30·00	74	W	1	bc	30·03	-·08	66	63	+ 6	ENE	1	c	*	75	58	-
	Nice...	29·93	80	NE	6	c	29·96	+·05	75	61	- 1	ENE	5	b	0	84	63	0·08
PENINSULA.	Perpignan ...	29·96	78	Z	0	b	30·00		71	66		ENE	5	b	*	85	58	0·08
	Biarritz	30·02	64	W	4	b	29·97	-·13	66	62	+ 6	Z	0	b	1	70	59	-
	Corunna	*	*	*	*	*												
	Lisbon.	29·95	61	NW	5	b	29·94	-·06	62	59	- 1	NNE	3	bc	6	73	57	-

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Thursday, 6th June 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus —*

⟶ = forces above 10, ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4;
⊙ = dead calm.

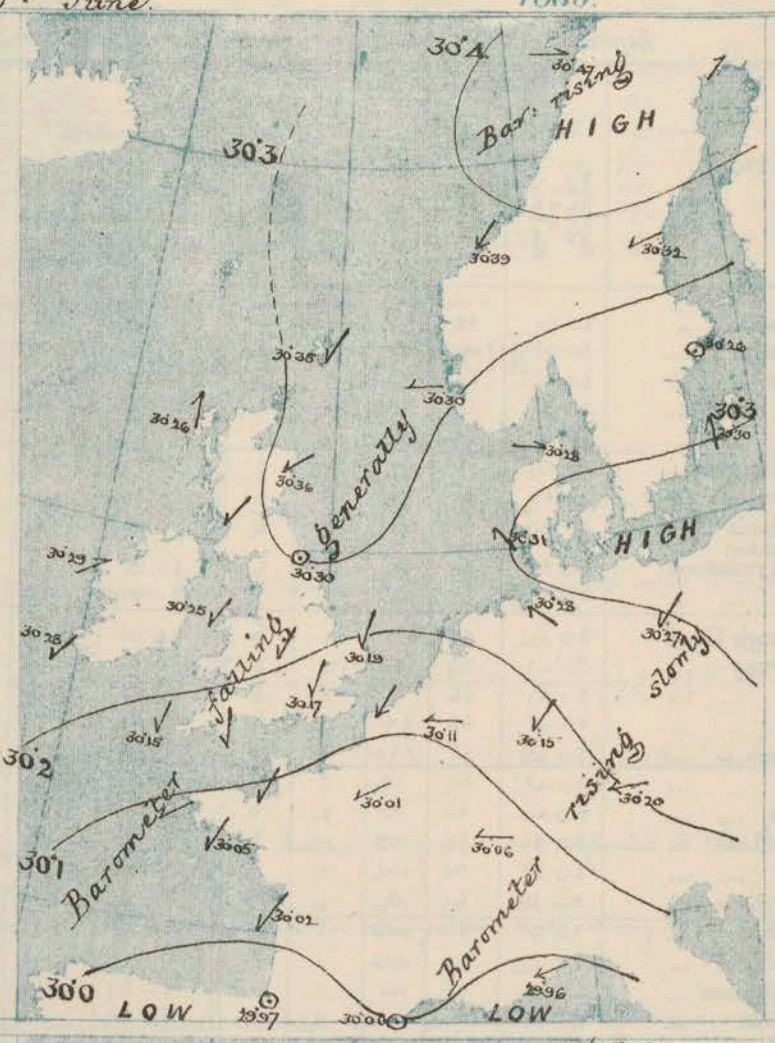
Sea Disturbance — *where considerable, is shewn thus.*

= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° Changes since previous morning are stated in words.*

Weather is shown by Letters of the Beaufort Scale.

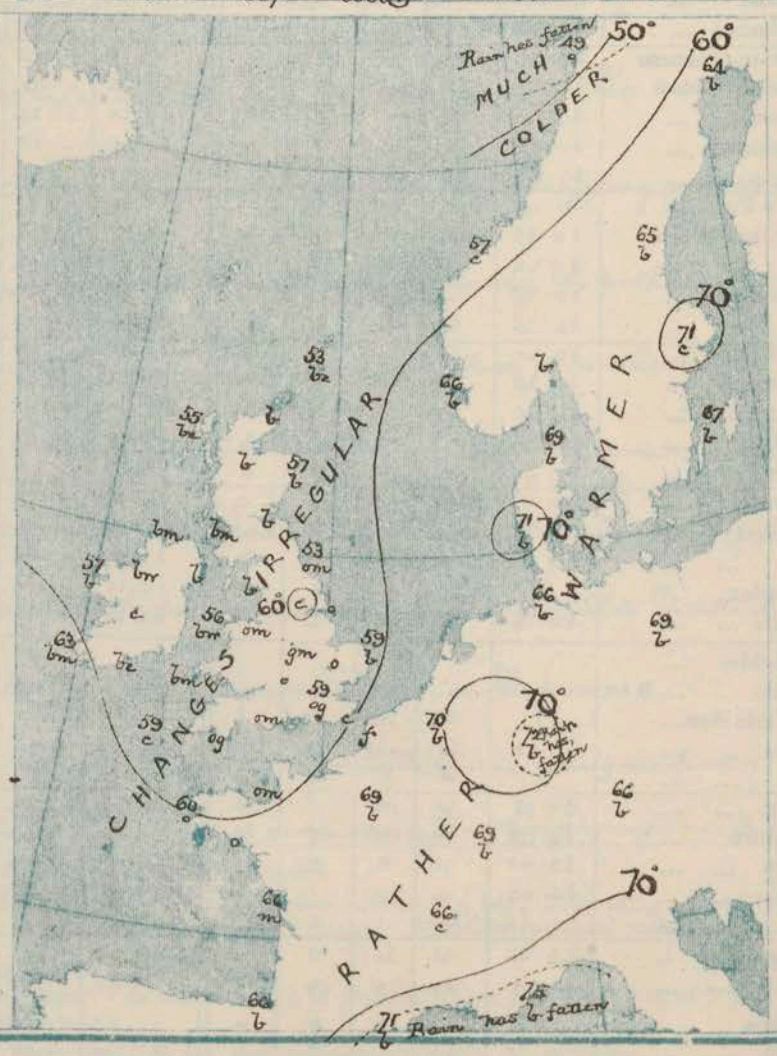
Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	At 8 a.m. Dry	At 8 a.m. Wet	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·0	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 16 years 1871—85, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·30 ins. to nearly 30·50 ins. over the east of Scotland, and the western and northern part of Scandinavia. Lowest, 30·00 ins. and less, over the southwest of France, and apparently over Spain also. Gradients slight, especially in the north. Barometer falling slowly in most places, inclined to rise again over Germany.

TEMPERATURE — Highest, 71° at Wiesbaden, 71° at Stockholm and Jassy, 69° at Berlin, the Saar and Paris, 66° at Munich, Rochefort, and Biarritz. Lowest, 53° at Sumburgh Head, Spurn Head, and Shields, 55° at Malin Head and Dungeness, 57° at Aberdeen, Christiansund, and Cambridge, and 59° in London. The daily maxima recorded yesterday were 84° to 86° at Wiesbaden and Berlin, 70° to 76° over England.

WIND — Light to moderate from the NE.ly at our eastern and southern stations and over the Bay of Biscay. E. in Holland and at Jassy, as well as at Munich. Extremely light and variable over the western and northern part of our Islands, light and variable over Scandinavia.

WEATHER — Dull and cloudy over the south of England, the Channel, and north and west of France, with fog and haze in places; very fine and bright elsewhere. No rainfall is reported from our own stations.

SEA — Moderate at Sumburgh Head, Spurn Head, and Dungeness, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The sky seems likely to clear again in the south shortly, and a general increase of temperature is probable, with fine weather.

FORECASTS

for the 24 hours ending at NOON on 7th JUNE *1889.*

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	Very light winds; fair, warm, but not settled.	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W 9 IRELAND NORTH 10 IRELAND SOUTH	Very light and variable breezes; fine, hazy.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	NE.ly breezes, light; dull to fine, warmer.	WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30·45	63	59	NNW 6	bc	3	Holyhead ...	30·45	57	54	N 3	b	1
Sumburgh Head	30·54	60	54	SSE 1	b	1	Valencia	30·43	64	59	SW 2	cm	2
Stornoway ...	30·43	64	63	S 2	b	2	Scilly	30·32	60	56	NNE 5	bc	5
Aberdeen ...	30·51	59	54	ESE 2	b	1	Jersey	30·30	70	63	NE 4	b	3
Shields	30·49	60	55	E 1	b	2	Dungeness ...	30·31	65	62	NE 5	bc	4
Ardrossan ...	30·46	62	56	NNW 2	b	2	London	30·35	72	58	ENE 3	b	*
Malin Head ...	30·45	58	55	E 2	b	1	Yarmouth ...	30·38	59	56	NNE 4	bc	4
Mullaghmore ...	30·44	63	57	NW 2	b	2	Rochefort ...	30·13	79	73	NE 3	bc	2
Belmullet ...	30·45	63	61	NSW 1	b	*							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was highest, 30·5 ins. and upwards, in the extreme northeast of Scotland, and high 30·4 ins. and upwards over nearly the whole of our Islands, the North Sea, and the west of Norway, as well as in a separate area lying over Finland. The lowest pressures, 29·8 ins. and less, were found in a somewhat complex depression lying over Central Italy and also in a large area lying over the Black Sea, Asia Minor, Turkey, and the adjacent portions of the Mediterranean. The wind was light and variable over the northern parts of the United Kingdom and Scandinavia, as well as over Spain and Central Europe, but moderate from the NE.ly over the Netherland, France, Italy, the south of England, and the greater part of Russia. Over Western Algeria, however, light or moderate S.ly breezes were reported, while in Tunis the wind was W.ly. The weather was fine generally, but dull in the west of Norway and Central Russia, as well as over Italy and the Adriatic, with rain at Naples. Temperature had fallen several degrees in Russia and the west of Norway, and to a less extent over the central parts of the United Kingdom and the south of Italy, but risen in most other localities; readings ranged from 70° and upwards over the southern parts of France and Austria and the north of Italy, to a little below 50° over Central Russia and to about the freezing point in the neighbourhood of the White Sea. The highest individual readings were 76° at Trieste and Nice, 75° at Buda Pesth, Turin, Leghorn, Toulon, and Barcelona, 73° at Berlin, Lesina, and St Petersburg, and 72° at Brindisi; the lowest were 32° at Archangel, 46° at St Petersburg, 48° at Moscow, 51° at Kuopio and Donaghadee, 55° at Rockle Point, 56° at Barrow in Furness and Parsonstown.

In the course of the day the barometer fell in nearly all parts of Western Europe — most in France and the south of England. The NE.ly wind freshened somewhat on our extreme southern coasts, but no other change of importance was observed.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

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DAILY WEATHER REPORT.

for Friday, 7th June, 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·16	56	NE	4	b	30·22	+·01	56	49	- 8	NE	4	bc	*	77	52	-
	Hernösand ...	30·01	61	N	0	b	30·20	-·12	57	51	- 8	NE	6	b	*	81	54	-
	Stockholm ...	30·15	68	N	0	b	30·03	-·23	77	67	+ 6	N	0	c	*	82	59	-
	Wisby	30·19	60	S	4	b	30·06	-·24	63	60	- 4	NW	4	b	*	70	54	-
	Bodö	30·33	50	N	2	b	30·06	-·41	62	54	+ 13	ENE	6	b	3	?	48	-
	Christiansund...	30·12	?	NE	3	b	30·05	-·34	55	54	- 2	NSW	3	f	2	64	52	-
	Skudesnaes ...	30·23	57	SSW	1	f	30·11	-·19	64	62	- 2	SE	2	c	3	?	55	-
	Christiania Fjord (Farder)	30·14	72	SW	4	b	30·05	-·22	68	64	+ 1	NSW	5	b	2	73	?	-
	Skagen (The Scaw)	30·14	62	N	0	b	30·10	-·18	73	57	+ 4	W	1	b	*	79	59	-
	Fanö	30·19	69	SE	1	b	30·15	-·16	73	65	+ 2	SE	1	b	*	81	61	-
BRITISH ISLANDS.	Sumburgh Head	30·16	49	SE	2	f	30·10	-·25	54	50	+ 1	NSW	2	bc	2	57	49	0·01
	Stornoway ..	30·09	64	W	3	bc	30·15	-·11	54	53	- 1	W	3	c	3	67	44	-
	Wick	30·11	56	NW	2	b	30·17	-·11	57	54	- 1	NW	2	b	1	62	48	-
	Nairn	30·19	65	E	2	c	30·17	-·13	56	50	- 3	W	2	bm	1	70	49	-
	Aberdeen... ...	30·17	55	SSE	1	cp	30·19	-·17	55	52	- 2	N	2	bc	2	60	52	0·42
	Leith ...	30·14	57	E	1	c	30·17	-·17	54	52	- 6	E	1	o	*	60	52	0·45
	Shields	30·12	53	E	1	f	30·10	-·20	57	54	+ 4	N	3	o	3	58	49	-
	Spurn Head ...	30·12	59	NE	3	b	30·02	-·21	56	54	+ 3	NNE	5	bc	4	60	52	0·01
	York	30·09	72	ENE	1	b	?	?	60	58	- 1	N	2	bc	*	78	51	-
	Loughborough	30·07	78	NE	3	b	30·05	-·19	64	61	+ 8	NNW	2	bm	*	80	55	-
	Ardrossan ...	30·12	67	NNW	1	o	30·18	-·10	56	51	- 4	NW	4	b	3	73	50	-
	Malin Head ...	30·20	57	NW	3	b	30·26	-·02	52	49	- 3	NNW	4	o	3	62	50	-
	Mullaghmore ...	30·22	57	NNW	4	b	30·29	·00	52	49	- 1	NNW	4	o	2	61	49	-
	Belmullet ...	30·25	56	W	2	bc	30·31	+·02	53	49	- 4	NNW	2	bc	*	64	49	-
	Donaghadee ...	30·15	62	NE	3	bc	30·23	-·07	53	51	- 5	NE	5	b	3	70	51	-
	Barrow-in-Furness	30·09	69	NW	2	c	? 30·08	-·17	59	55	- 2	N	3	bm	*	71	56	-
	Liverpool (Bidston)	30·10	65	NNW	1	b	30·12	-·13	55	53	- 4	NNW	3	o	4	71	54	-
	Holyhead ...	30·12	56	NW	1	c	30·16	-·09	54	52	- 2	N	4	b	4	61	51	-
	Parsonstown ...	30·16	69	NNW	2	c	30·28	-·01	55	49	0	NW	2	c	*	72	46	-
	Valencia	30·24	57	NNW	3	b	30·29	[illegible]	56	50	- 7	N	3	bc	3	64	51	-
	Roche's Point...	30·16	65	NNW	4	b	30·20	-·04	57	52	- 1	NNW	5	b	4	70	50	-
	Pembroke ...	30·08	62	NE	4	c	30·09	-·12	55	52	- 7	N	7	b	4	66	52	-
	Scilly	[illegible]·06	59	N	5	bm	30·07	-·08	57	54		NNE	6	bm	5	61	55	-
	Prawle Point ...	30·03	71	N	2	bc	30·01	-·14	61	59	+ 3	NNE	2	cm	1	74	57	-
	Jersey	30·00	63	E	1	om	30·00	-·10	61	59	- 3	SW	3	bcm	3	66	57	-
	Hurst Castle ...	29·98	73	NE	2	m	29·98	-·17	70	67	+ 1	NE	2	m	1	74	? 55	-
	Dungeness ...	30·00	61	NE	3	f	29·97	-·14	68	62	[illegible]	ESE	1	c	1	72	58	0·01
	London	30·02	77	ENE	1	c	29·99	-·18	68	64	+ 9	ENE	2	o	*	83	58	0·56
	Oxford	30·03	70	N	2	bc	30·02	-·18	61	59	+ 6	N	3	ctl	*	77	55	-
	Cambridge ...	30·05	77	N	2	b	30·01	-·19	61	61	+ 4	N	1	tl	*	79	56	0·82
GERMANY.	Yarmouth ...	30·08	64	NE	3	b	30·01	-·18	61	59	+ 2	ENE	1	b	2	65	58	-
	Cuxhaven ...	30·22	71	E	2	b	30·14	-·14	73	68	+ 7	SE	1	m	*	76	?	-
	Berlin	30·14	75	NNE	4	b	30·15	-·12	72	62	+ 3	SW	1	b	*	84	64	-
	Wiesbaden ...	*	*	*	*	*	30·12	-·03	69	61	- 3	E	1	b	*	84	61	-
	Munich	30·15	62	NE	2	b	30·16	-·04	64	58	- 2	E	3	b	*	73	50	-
FRANCE & NETHERLANDS.	The Helder ...	30·10	72	ENE	1	f	30·08		71	65		ESE	1	b	1	75	66	-
	Brussels .. ... 9 AM	*	*	*	*	*	30·01	-·10	73	65	+ 3	SSE	3	bc	4	85	53	-
	Cape Gris Nez...	?	62	NE	3	c	?	?	72	?	+ 17	N	0	c	0	?	?	0·20
	Paris	29·98	79	SE	2	bc	30·02	+·01	71	66	+ 2	SW	1	b	[illegible]	85	60	-
	Brest	?	61	E	2	o	?	?	58	56	- 2	N	3	m	2	66	55	-
	Lorient	30·00	66	N	0	o	30·02	-·03	61	60	+ 2	NW	1	o	2	73	59	-
	Rochefort ...	29·99	71	NW	3	m	30·04	+·02	64	64	- 2	NNW	2	m	2	77	57	-
	Belfort	30·06	74	E	1	b	30·07	+·01	69	62	0	E	1	b	*	85	59	-
	Lyons	30·00	74	W	1	c	30·06	+·03	69	62	+ 3	NSW	1	b	*	85	59	-
	Nice...	29·95	80	NNW	1	b	30·05	+·09	76	64	+ 1	NE	1	b	0	84	66	-
PENINSULA.	Perpignan ...	29·97	76	SE	2	bc	30·08	+·08	71	66	0	N	0	b	*	82	58	-
	Biarritz	29·95	69	W	2	b	30·04	+·07	62	61	- 4	N	0	m	1	77	59	-
	Corunna	*	*	*	*	*												
	Lisbon	29·90	66	N	4	o	29·91	-·03	66	62	+ 4	ENE	2	c	2	75	?	-

For Explanation of Columns, see p. 4.

‡ Received too late for insertion in Charts on p. 2

WEATHER CHARTS

for 8 a.m. on Friday, 7th June 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevailed winds. They fly with the wind and their barbs and feathers refer to force, thus —

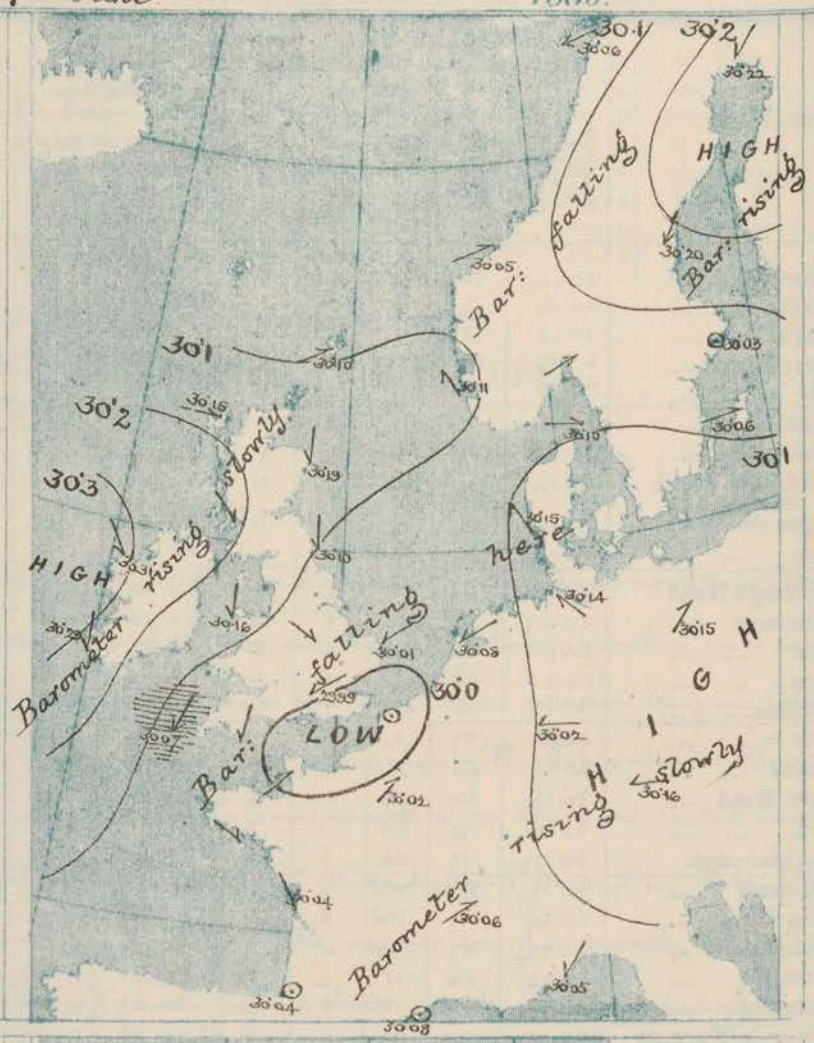
⊛⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = force 1 to 4;
⊙ = dead calm.

Sea Disturbance — where considerable, is shewn thus.
= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. in.
Sumburgh Head	29 · 862
Stornoway	29 · 852
Wick	29 · 874
Nairn	29 · 880
Aberdeen	29 · 890
Leith	29 · 904
Shields	29 · 928
York	29 · 949
Loughborough	29 · 958
Ardrossan	29 · 909
Donaghadee	29 · 920
Holyhead	29 · 944
Liverpool	29 · 944
Parsonstown	29 · 952
Valencia	29 · 954
Roche's Point	29 · 952
Pembroke	29 · 952
Scilly	29 · 982
Jersey	29 · 994
Hurst Castle	29 · 981
Dover	29 · 971
LONDON	29 · 976
Oxford	29 · 964
Cambridge	29 · 967
Yarmouth	29 · 963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

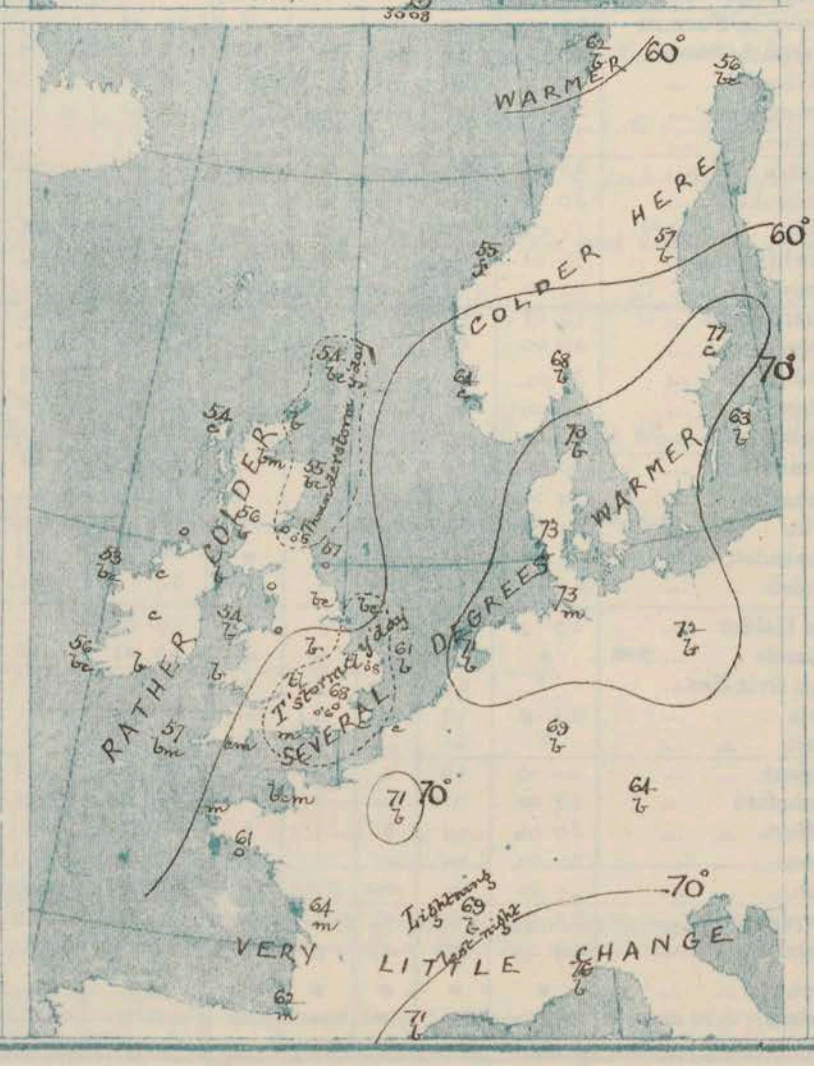
Temperature — Isotherms are drawn for each 10°. Changes since previous morning are stated in words.
Weather is shown by Letters of the Beaufort Scale.
Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June.

STATIONS.	TEMPERATURE. Daily Max	Daily Min	at 8 a.m. Dry	Wet	RAINFALL. (Inches)
Sumburgh Head	54 · 5	45 · 1	50 · 4	48 · 7	2 · 07
Stornoway	57 · 6	46 · 0	53 · 3	51 · 0	2 · 99
Wick	58 · 8	45 · 7	53 · 1	50 · 4	1 · 75
Nairn	62 · 1	48 · 0	54 · 2	50 · 4	1 · 88
Aberdeen	61 · 3	47 · 5	54 · 7	50 · 9	1 · 88
Leith	64 · 5	48 · 1	56 · 0	52 · 5	1 · 84
Shields	60 · 9	49 · 1	54 · 9	51 · 9	1 · 82
York	66 · 2	48 · 3	56 · 1	52 · 7	2 · 45
Loughborough	68 · 7	49 · 0	58 · 1	54 · 1	2 · 43
Ardrossan	62 · 0	49 · 7	55 · 1	52 · 0	2 · 62
Donaghadee	60 · 9	48 · 9	55 · 0	52 · 8	2 · 04
Holyhead	61 · 7	51 · 6	55 · 6	53 · 1	2 · 10
Liverpool	63 · 6	50 · 9	56 · 6	52 · 6	1 · 96
Parsonstown	64 · 0	48 · 2	55 · 8	52 · 2	2 · 46
Valencia	61 · 7	50 · 7	56 · 8	53 · 8	3 · 42
Roche's Point	64 · 8	50 · 8	56 · 5	53 · 3	3 · 26
Pembroke	60 · 3	51 · 4	55 · 0	52 · 9	2 · 09
Scilly	61 · 1	53 · 0	57 · 2	55 · 0	1 · 94
Jersey	64 · 8	52 · 6	58 · 7	55 · 9	1 · 83
Hurst Castle	63 · 9	51 · 9	57 · 6	55 · 4	2 · 07
Dover	63 · 3	53 · 1	58 · 6	55 · 1	1 · 72
LONDON	69 · 3	50 · 6	59 · 2	54 · 8	2 · 12
Oxford	67 · 1	49 · 4	56 · 9	53 · 4	2 · 28
Cambridge	68 · 8	48 · 5	58 · 0	54 · 7	2 · 40
Yarmouth	62 · 2	51 · 4	56 · 9	54 · 1	2 · 02

NOTE – The Temperature means are for the 15 years 1871–85 the Rainfall means are mainly those for the 20 years 1866–85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·1 ins: to 30·3 ins: over the west and north of our Islands — 30·0 ins: to 30·2 ins: over Scandinavia and Finland, 30·1 ins: and more over Germany. Lowest, 30·0 ins: and less, in a depression over Spain, and in another over the south of England and north of France. Gradients slight and variable; distribution of pressure very complex. Barometer rising slowly in most places, falling slightly over the southeast of England.

TEMPERATURE — Highest, 77° at Stockholm, 76° at Nice, 73° at the Scaw, Jaö, and Cuxhaven, 72° at Berlin, 71° at the Helder, Paris and Perpignan. Lowest, 52° at Malin Head and Mullaghmore, 53° at Valencia and Donaghadee, 54° at Lerwick, Ht. Leith, and Holyhead, 55° at Pembroke. The daily maxima recorded yesterday were 85° at Lyons, 84° at Nizabadeu and Berlin, 83° in London, 82° at Stockholm, 81° at Jaö, and 80° at Loughborough.

WIND — Fresh NE over the northern parts of Scandinavia — Light W to NW in Scotland. Fresh to strong NW to N over our eastern districts and the north and northeast of England. SE at Dungeness and Holyhead, SW at Jersey and Paris — NW in the west of France. Very variable in other places.

WEATHER — Fine at present in most places, hazy in the southwest, unsettled looking in London. Thunderstorms prevalent at Oxford and Cambridge. Severe thunderstorms occurred last night in the east of Scotland and southeast of England, with large hailstones in some localities.

SEA — Moderate on the Welsh coast and off the southwest of England, as well as at Spurn Head, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The present distribution of pressure is of a very unsettled type, and further thunderstorms are probable in many parts of England and France

FORECASTS

for the 24 hours ending at NOON on 8th JUNE *1889.*

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	W to N winds, light or moderate; fair.	6 SCOTLAND WEST	Same as No 0 and 1.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	N to E winds, moderate or light; thundery, much rain locally.	7 ENGLAND N.W. 8 ENGLAND S.W	NE and N breezes; rain and thunder in some localities; fair in others.
5 ENGLAND SOUTH	Wind light and varying much; close, changeable, thunderstorms in places.	9 IRELAND NORTH 10 IRELAND SOUTH	N breezes, moderate; fair as a whole.
		WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the North Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the South Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30·27	71	63	WSW 4	b	2	Holyhead ...	30·16	60	56	NNW 2	b	1
Sumburgh Head	30·25	53	52	ESE 1	m	1	Valencia	30·25	59	56	NW 4	bqm	5
Stornoway ...	30·15	65	64	S 3	b	3	Scilly	30·10	60	56	N 4	bm	4
Aberdeen ...	30·25	57	54	SE 2	b	2	Jersey	30·04	62	61	NNE 3	o	3
Shields	30·21	56	55	NE 2	c	2	Dungeness ..	30·01	71	64	NE 4	bc	3
Ardrossan ...	30·16	72	65	NE 1	b	0	London	30·06	79	70	ENE 2	b	*
Malin Head ...	30·22	62	58	NW 1	b	0	Yarmouth ...	30·13	64	61	NNE 3	b	3
Mullaghmore ...	30·22	60	56	WNW 4	b	2	Rochefort ...	30·02	71	69	NNW 2	m	2
Belmullet ...	30·28	59	57	WNW 2	b	*							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was highest, 30·4 ins. and upwards, in the northwest of Norway, but high over all the more northern parts of Scandinavia and the North Sea, as well as in a separate area lying over the southern parts of Sweden, Denmark and the Baltic. The lowest reading, 29·8 ins. and less, were found in a small depression lying to the eastward of Malta, but a large area with readings below 29·9 ins. lay over the whole of Southeastern Europe, the eastern parts of the Mediterranean and the south of Italy. The wind was light and very variable over the Baltic, the south of Scandinavia, and the north of our Islands, but moderate from the E.ward or NE.ward over the greater part of Eastern, Central, and Southern Europe. In Lapland and Finland, however, it was chiefly W. or SW. while in Algeria it was light from the S.ward. The weather was fine generally, but dull and gloomy at some of the English stations. Temperature had fallen a few degrees in many parts of Great Britain as well as over Russia, Germany, and Austria, but risen elsewhere, readings ranged from a little above 75° over the Adriatic and the extreme south of France, and a little above 70° at most of the Italian and Mediterranean stations, as well as in some parts of Denmark and Germany to rather below 45° over Central Russia, and to a little below 35° in the neighbourhood of the White Sea. The highest individual readings were 81° (?) at Barcelona, 78° at Lesina, 77° at Trieste and Toulon, 75° at Nice, Lisbon, and Florence, 74° at Corunna, 73° at Turin, and 72° at Wiesbaden, Rome, Brindisi, Cagliari, Palma and Algiers; the lowest were 34° at Archangel, 43° at Moscow, 46° at Khariov, 49° at Bodö and Kiev, 51° at St Petersburg and Nicolaieff, and 53° at Sumburgh Head, Shields and Spurn Head.

In the course of the day the barometer fell in nearly all parts of Western Europe, and towards night a small depression was developed over the eastern parts of the English Channel. Severe thunderstorms were experienced in the southeast of England, as well as at some of the Scotch stations.

The newspapers report that a violent hailstorm was experienced at Madrid yesterday afternoon.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Saturday, 8th June, 1889.

Issued by the Meteorological Office 63 Victoria Street, London. R.H. SCOTT, Secretary.

	STATIONS	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30.14	54	S	2	b	30.02	-.20	58	50	+ 2	SE	2	c	*	66	48	-
	Hernösand ...	30.08	54	NE	2	o	29.94	-.26	56	53	- 1	NE	2	o	*	68	54	0.04
	Stockholm ...	29.98	?	E	2	c	29.89	-.14	66	59	- 11	E	2	b	*	79	61	0.20
	Wisby	29.98	63	WSW	4	b	29.89	-.17	65	60	+ 2	WSW	4	b	*	81	57	-
	Bodö	29.98	51	W	2	r	29.94	-.12	52	50	- 10	Z	0	o	o	72	48	0.20
	Christiansund...	30.03	53	WNW	4	r	29.94	-.14	55	40	0	SE	1	c	2	55	48	0.16
	Skudesnaes ...	30.04	57	NW	6	c	29.93	-.18	56	50	- 5	NNW	8	bc	4	68	52	-
	Christiania Fjord (Fiorder)	29.89	69	WSW	6	b	29.84	-.21	68	64	0	WSW	3	b	1	72	66	-
	Skagen (The Scaw)	29.96	66	W	1	b	29.85	-.25	68	64	- 5	SW	1	b	1	82	61	-
	Fanö	29.99	68	S	1	b	29.89	-.26	75	66	+ 2	SE	1	b	*	81	63	-
BRITISH ISLANDS.	Sumburgh Head	30.10	54	WSW	3	b	29.94	-.16	52	50	- 2	SW	1	o	2	57	47	-
	Stornoway ..	30.14	56	W	4	o	29.94	-.21	52	51	- 2	SW	2	o	2	59	46	-
	Wick	30.14	56	NW	1	bc	29.94	-.23	54	52	- 3	NW	1	o	1	65	47	-
	Nairn	30.11	62	E	1	b	29.95	-.22	53	50	- 3	Z	0	c	1	68	47	-
	Aberdeen... ...	30.17	53	E	2	b	30.00	-.19	54	50	- 1	SSE	1	c	2	62	45	-
	Leith	30.15	54	E	4	b	30.00	-.17	58	52	+ 4	W	1	cm	*	61	43	-
	Shields	30.15	53	N	2	o	30.00	-.10	55	51	- 2	ENE	2	bc	3	57	46	-
	Spurn Head ...	30.05	55	N	6	o	29.99	-.03	53	52	- 3	N	3	o	3	57	51	-
	York	? 30.07	58	N	2	c	? 29.98	?	53	51	- 7	N	1	o	*	70	50	-
	Loughborough	30.05	54	NE	4	o	30.02	-.03	53	51	- 11	NE	2	ogm	*	75	51	-
	Ardrossan ...	30.13	57	NW	4	b	29.99	-.19	54	51	- 2	Z	0	bc	o	61	45	-
	Malin Head ...	30.20	57	NNW	3	b	29.99	-.27	52	48	0	SSW	3	o	3	57	? 45	-
	Mullaghmore ...	30.24	55	WNW	5	b	30.01	-.28	52	48	0	SSW	4	o	2	58	46	-
	Belmullet ...	30.27	55	NNW	2	c	30.00	-.31	52	51	- 1	SW	4	r	*	57	50	-
	Donaghadee ...	30.18	57	NE	4	b	30.03	-.20	57	53	+ 4	NE	3	b	2	59	52	-
	Barrow-in-Furness	? 30.10	59	N	2	o	? 30.00	-.08	55	52	- 2	E	1	b	*	62	52	-
	Liverpool (Bidston)	30.09	60	NNE	2	o	30.01	-.11	61	54	+ 6	N	1	b	2	62	53	-
	Holyhead ...	30.13	53	N	5	b	30.03	-.13	55	52	+ 1	N	2	b	2	56	50	-
	Parsonstown ...	30.14	62	NW	1	b	30.08	-.20	58	49	-.2	Z	0	bc	*	64	38	-
	Valencia	30.25	56	NNW	3	bm	30.10	-.19	57	52	+ 1	WNW	1	b	1	60	48	-
	Roche's Point...	30.17	65	N	4	b	30.07	-.13	56	51	- 1	N	2	b	3	69	47	-
	Pembroke ...	30.04	55	N	3	b	30.00	-.09	53	52	- 2	NNE	5	ogm	2	57	51	-
	Scilly	30.05	57	NNE	6	b	29.97	-.10	55	52	- 2	NNE	5	om	5	58	53	-
	Prawle Point ...	29.95	74	N	2	c	29.96	-.05	58	58	- 3	NE	2	mw	1	74	56	-
	Jersey	29.96	65	SE	1	c	29.87	-.13	63	61	+ 2	ENE	1	ogm	1	69	60	-
	Hurst Castle ...	29.95	64	E	2	o	29.96	-.02	57	56	- 13	NE	3	o	1	78	56	0.01
	Dungeness ...	29.94	62	S	1	m	29.92	-.05	59	57	- 9	N	3	o	2	71	57	-
	London	29.97	68	N	1	c	29.95	-.04	56	54	- 12	N	1	og	*	80	54	0.06
	Oxford	30.02	62	NE	4	o	29.99	-.03	53	52	- 8	NE	2	o	*	77	53	1.06
	Cambridge ...	30.03	56	N	2	o	29.97	-.04	53	53	- 8	N	2	o	*	69	52	0.55
	Yarmouth ...	29.99	61	N	3	bc	29.93	-.08	55	54	- 6	NNW	3	cg	3	65	53	0.28
GERMANY.	Cuxhaven ...	30.02	75	NNW	1	b	29.89	-.25	75	70	+ 2	SSE	1	b	*	77	69	-
	Berlin	29.96	79	E	1	b	29.95	-.20	75	64	+ 3	SE	1	b	*	90	68	-
	Wiesbaden ...	*	*	*	*	*	29.97	-.15	68	62	- 1	E	1	b	*	82	59	-
	Munich	30.09	63	SE	1	b	30.06	-.10	65	60	+ 1	E	3	b	*	73	46	-
FRANCE & NETHERLANDS.	The Helder ...	29.97	61	ENE	1	bc	29.88	-.20	66	61	- 5	WSW	1	c	1	77	64	-
	Brussels .. ... SAM	*	*	*	*	*	29.90	-.11	68	63	- 5	WSW	2	r	*	86	62	0.04
	Cape Gris Nez...			NNE	1		?	?	57	53	- 15	NE	3	f	3	77	54	-
	Paris	29.96	70	E	1	c	29.93	-.09	69	64	- 2	S	2	b	*	87	59	1.02
	Brest	?	66	N	4	m	?	?	59	58	+ 1	N	1	m	1	68	54	-
	Lorient	29.97	67	Z	0	m	29.92	-.10	63	63	+ 2	Z	0	m	2	70	61	-
	Rochefort ...	30.00	69	NW	3	b	29.97	-.07	66	62	+ 2	NW	1	m	2	75	55	-
	Belfort	30.00	72	E	1	o	29.96	-.11	69	65	0	E	1	b	*	66	64	-
	Lyons	29.98	74	WSW	2	c	29.97	-.09	70	61	+ 1	E	1	b	*	87	59	-
	Nice...	30.00	73	SW	3	bc	29.97	-.08	69	58	- 7	ENE	3	b	o	82	63	-
PENINSULA.	Perpignan ...	29.96	74	E	3	b	29.96	-.12	68	65	- 3	NW	1	b	*	81	57	-
	Biarritz	29.94	67	WNW	3	m	29.96	-.08	64	63	+ 2	ENE	2	o	o	77	61	0.59
	Corunna	*	*	*	*	*												
	Lisbon	29.93	65	SW	4	o	29.98	+.07	62	61	- 4	S	4	o	?	70	61	0.12

For Explanation of Columns, see p. 4.

‡ Received too late for insertion in Charts on p. 2

WEATHER CHARTS

for 8 a.m. on Saturday, 8th JUNE. 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

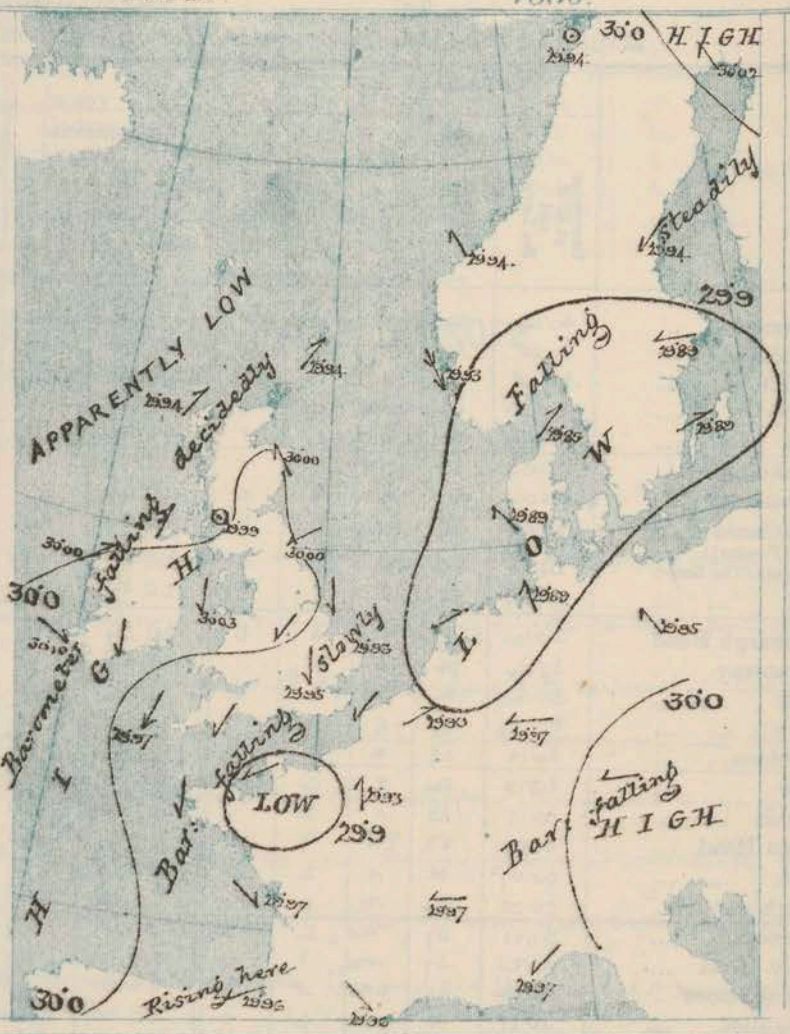
⊛⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — where considerable, is shewn thus.
= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June.
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M.,

with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.

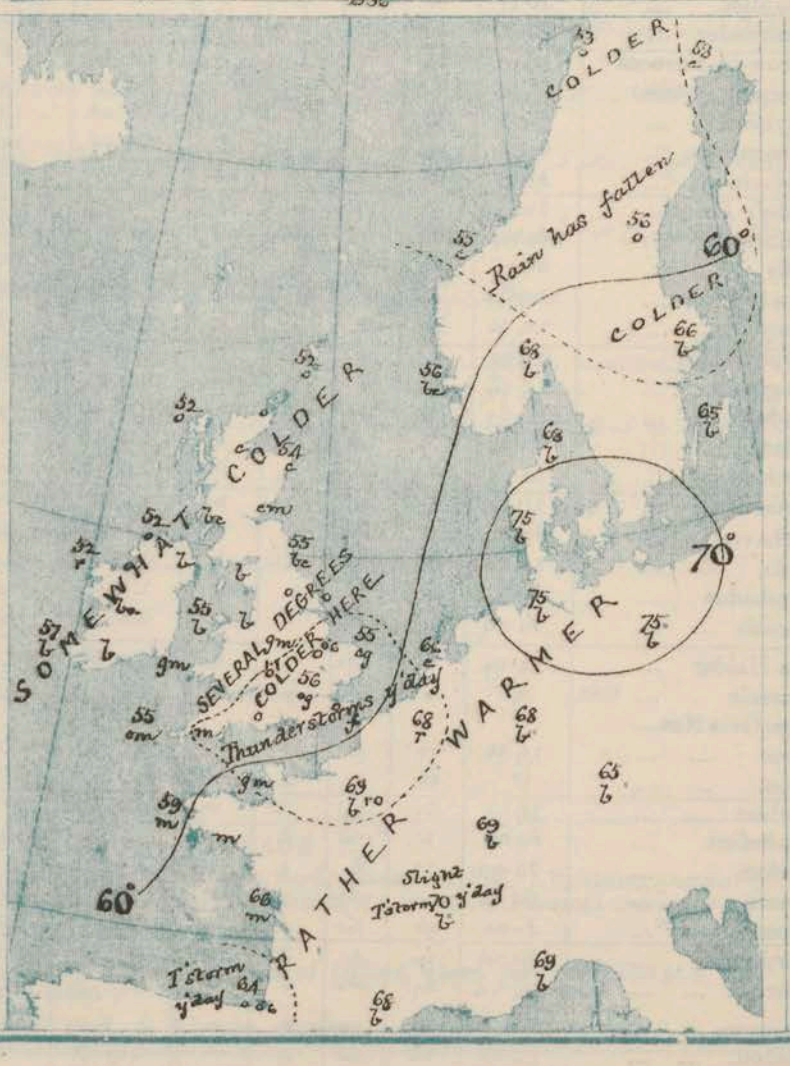
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of June

STATIONS	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	Wet	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·8	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 1. 30·0 ins: and more, over Ireland, the north of England and apparently over the Bay of Biscay. 2. 30·0 ins: and more, over the east of Lapland and the Kola Peninsula, and also over Switzerland and South Germany. Lowest, 29·9 ins: and here, in a complex depression lying to the eastward of the North Seas, and in a smaller disturbance over the northwest of France. Gradients slight and irregular. Barometer falling rather decidedly in Scotland and Ireland, but not changing much in the east and southeast of England.

TEMPERATURE — Highest, 75° at Berlin, Cuxhaven and Yarmouth; 70° at Lyons, 69° at Belfort, Nice, and Paris, and 68° at Feeder, Bonnach and Perpignan. Lowest, 52° at Bodö, Lumburgh Head and in the northwest of Ireland, 53° at Parsonstown and Pembroke, and at stations over Central England. It had decreased quickly over England during the night, but changed very little in Ireland.

WIND — Very variable as a whole; N^ly over England, nearly calm over Scotland and the greater part of Ireland, but becoming S^ly on our extreme northwestern coasts.

WEATHER — Dull and gloomy, with fog in places, over the south and east of England, the Channel and Belgium. Clear and bright in the south and east of Ireland and the northwest of England, dull on our northwest coasts, with rain at Blacksod. Thunderstorms occurred very generally in Brittany and the south and southeast of England yesterday. Rain fell over Scandinavia.

SEA — Rather rough at Scilly, moderate at Shoeburness, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The disturbances in the east and south appear likely to cause further falls of rain in those districts, with thunder locally; the new system approaching our western districts will probably cause unsettled weather in Ireland and Scotland, but may break up the minor systems now prevailing in the east and south.

FORECASTS

for the 24 hours ending at NOON on 9th JUNE *1889.*

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW^ly and W^ly winds, increasing in force; showery.
1 SCOTLAND EAST	Varying winds, finally SW^ly; very changeable, some rain.
2 ENGLAND N.E.	
3 ENGLAND EAST	N^ly winds, thundery and showery, then very changeable, some bright intervals.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as No 0.
7 ENGLAND N.W.	
8 ENGLAND S.W.	Same as No 3 to 5.
9 IRELAND NORTH	Same as No 0.
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnes ...	30·08	68	61	WNW 2	c	3	Holyhead ..	30·17	54	50	N 4	b	4
Sumburgh Head	30·10	56	53	WSW 2	bc	2	Valencia	30·28	60	53	N 4	bcm	4
Stornoway ...	30·17	58	57	SW 3	c	3	Scilly	30·08	57	53	N 6	bm	5
Aberdeen ...	30·13	62	51	N 2	b	3	Jersey	29·99	70	65	WNW 3	o	3
Shields	30·16	55	52	N 3	o	3	Dungeness ...	29·96	65	61	S 1	tlm	1
Ardrossan ...	30·17	59	54	NW 4	b	3	London	29·97	76	70	NW 2	c	*
Malin Head ...	30·26	57	50	NNW 3	b	3	Yarmouth ...	30·02	60	59	N 2	rtl	2
Mullaghmore ...	30·28	57	51	WNW 5	b	3	Rochefort ...	30·04	73	?	WNW 3	b	3
Belmullet ...	30·32	56	47	NNW 2	b	*							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The distribution of pressure over Europe yesterday was exceedingly irregular. Readings were highest, 30·3 ins: and upwards, in an anticyclone lying off the west of Ireland, but high, 30·2 ins: and upwards, over Finland and the north of Sweden, 30·1 ins: and upwards, over Denmark and Central Europe and 30·0 ins: over Eastern Algeria. The lowest readings, 29·9 ins: and less, were found in three large, but shallow depressions lying respectively over Spain and Central Russia and to the southward of Italy, but another depression, with readings below 30·0 ins: was reported over the southeast of England and the north of France. The wind was W½ in the extreme north of our Islands, and N½ or NE½ in most other parts of the Kingdom, but elsewhere it varied greatly in direction. The weather was fine over by far the larger part of the Continent, but overcast skies were reported at some of the Russian stations, and severe thunderstorms were in progress over Central England. Temperature has fallen a few degrees in the west and north of our Islands, as well as in Finland and the north of Sweden, but risen in most other localities; readings ranged from a little above 80° in Sardinia and a little above 70° over Denmark, the Adriatic and the Mediterranean to a few degrees below 45° over Northern and Central Russia. The highest individual readings were 81° at Cagliari, 78° at Barcelona, 77° at Stockholm (?), Toulon and Lisbon, 76° at Nice, and 73° at Skagen, Fanö, Cuxhaven, Lesina, Brindisi, Rome, Turin and Sanguinaire, the lowest were 40° at Archangel, 42° at Moscow, 48° at Kharkov, 51° at Kiev, 52° at St Petersburg, Hermanstadt, Malin Head, and Mullaghmore, 53° at Nicolaieff, Donaghadee and Belmullet, and 54° at Odessa, Sumburgh Head, Stornoway, and Leith.

In the course of the day very little change occurred in the distribution of pressure, and thunderstorms continued to prevail at many of the English stations. At Oxford the accompanying rainfall amounted to 1·1 ins:.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 9th JUNE 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29.87	50	Z	0	b	29.96	— .26	60	59	+ 2	S	4	c	*	66	48	—
	Hernösand ...	29.81	53	E	2	f	29.68	— .26	51	?	— 5	S	2	f	*	66	?	0.51
	Stockholm ...	29.98	64	SE	2	b	29.67	— .22	70	63	+ 4	SSW	2	b	*	75	55	—
	Wisby	29.78	64	S	4	b	29.69	— .20	71	63	+ 6	SW	4	b	*	75	55	—
	Bodö	29.80	53	N	2	0	29.69	— .25	51	49	— 1	Z	0	0	1	59	50	0.08
	Christiansund...	29.82	54	Z	0	c	29.71	— .23	53	48	— 2	WNW	3	0	2	57	48	—
	Skudesnaes ...	29.81	55	NW	6	0	29.69	— .24	55	49	— 1	NW	6	c	3	59	50	—
	Christiania Fjord (Færder)	29.65	68	SSW	6	c	29.55	— .29	68	63	0	S	5	b	2	72	66	—
	Skagen (The Scaw)	29.68	64	Z	0	c	29.54	— .31	65	62	— 3	Z	0	c	0	77	63	0.12
	Fanö	29.72	64	NW	1	r	29.63	— .26	64	60	— 11	NW	2	b	*	81	59	0.02
BRITISH ISLANDS.	Sumburgh Head	29.86	53	SW	1	bc	29.79	— .15	48	47	— 4	N	2	0	2	58	42	—
	Stornoway ..	29.87	53	SW	2	0	29.87	— .07	48	48	— 4	N	5	r	5	53	40	0.18
	Wick	29.85	53	NW	1	bc	29.81	— .13	57	53	+ 3	N	2	bc	1	59	47	—
	Nairn	29.83	55	ENE	1	0	29.83	— .12	53	51	0	E	1	bc	1	63	50	—
	Aberdeen... ...	29.85	51	SSE	3	0	29.82	— .18	51	48	— 3	N	1	0	3	55	47	0.07
	Leith	29.85	53	E	1	r	29.78	— .22	50	49	— 8	E	1	cp	*	61	48	0.15
	Shields	29.84	53	E	3	0	29.77	— .23	48	49	— 9	NE	1	r	3	57	47	0.11
	Spurn Head ...	29.84	54	NE	2	bc	29.74	— .25	52	50	— 1	NE	2	0	3	58	49	0.01
	York	? 29.80	64	SSE	2	bc	? 29.72	— .26	52	52	— 1	E	1	r	*	70	50	0.15
	Loughborough	29.84	63	E	1	0	29.75	— .24	49	48	— 4	NW	1	rg	*	67	49	0.22
	Ardrossan ...	29.84	52	S	1	0	29.78	— .21	53	51	+ 1	NE	1	cm	1	57	49	0.14
	Malin Head ...	29.80	55	W	5	cp	29.85	— .14	52	48	0	N	5	c	4	57	49	0.01
	Mullaghmore ...	29.86	54	WNW	4	cm	29.90	— .11	52	49	0	NNW	5	og	3	56	50	0.07
	Belmullet ...	29.94	53	NNW	4	0	29.97	— .03	51	46	— 1	N	2	0	*	57	50	0.03
	Donaghadee ...	29.91	57	SW	2	c	29.80	— .23	52	51	— 5	NNW	5	bc	3	59	51	0.05
	Barrow-in-Furness	? 29.84	54	SW	3	0	? 29.74	— .26	54	58	— 1	N	2	c	*	60	52	0.15
	Liverpool (Bidston)	29.86	53	WNW	2	c	29.94	— .27	53	52	— 8	NNW	1	r	2	63	51	0.15
	Holyhead ...	29.87	56	Z	0	og	29.96	— .27	55	53	0	NNW	4	bc	3	58	50	0.07
	Parsonstown ...	29.89	57	Z	0	0	29.88	— .20	52	49	— 1	NW	3	0	*	61	48	—
	Valencia	29.95	54	WNW	2	cdm	29.95	— .15	57	50	0	N	3	bc	3	58	51	0.02
	Roche's Point...	29.91	58	NNW	4	c	29.86	— .21	54	51	— 2	N	5	b	4	62	48	0.05
	Pembroke ...	29.89	55	NW	2	b	29.75	— .25	52	49	— 1	N	5	cgp	2	61	50	0.21
	Scilly	29.91	56	NNW	5	bm	29.76	— .21	54	52	— 1	N	5	cp	4	56	51	0.02
	Prawle Point ...	29.85	58	WSW	2	0	29.71	— .25	63	58	+ 5	N	2	bgp	1	63	46	—
	Jersey	29.83	62	NW	2	cm	29.90	— .17	59	58	— 4	WNW	3	cm	3	63	56	0.01
	Hurst Castle ...	29.85	63	NE	3	m	29.90	— .26	60	59	+ 3	ENE	1	m	0	70	57	—
	Dungeness ...	29.87	58	E	3	m	29.68	— .24	55	54	— 4	E	2	f	1	60	51	0.01
	London	29.84	59	Z	0	og	29.90	— .25	56	55	0	ENE	1	og	*	61	54	—
	Oxford	29.84	58	E	1	b	29.90	— .29	54	53	+ 1	Z	0	0	*	62	49	—
	Cambridge ...	29.83	57	NE	1	0	29.91	— .26	54	52	+ 1	NE	1	0	*	59	50	—
	Yarmouth ...	29.84	56	N	3	c	29.91	— .22	55	54	0	N	3	cg	3	58	51	0.01
GERMANY.	Cuxhaven ...	29.85	69	SSW	2	b	29.67	— .22	67	65	— 8	SW	2	c	*	79	66	0.22
	Berlin	29.77	80	S	1	b	29.90	— .25	73	64	— 2	S	2	bc	*	93	66	—
	Wiesbaden ...	*	*	*	*	*	29.76	— .21	67	64	— 1	W	1	b	*	?	59	0.63
	Munich	29.92	66	Z	0	b	29.89	— .17	66	58	+ 1	SW	1	b	*	77	57	—
FRANCE & NETHERLANDS.	The Helder ...	29.78	61	Z	0	f	29.67	— .21	64	60	— 2	NW	1	c	1	72	61	—
	Brussels 9am	*	*	*	*	*	29.68	— .22	62	61	— 6	NNE	1	0	*	81	59	0.04
	Cape Gris Nez...	?	57	NE	3	f	?	?	55	54	— 2	ENE	3	r	2	63	54	0.24
	Paris	29.87	68	S	1	b	29.70	— .23	65	63	— 4	SSE	3	0	*	84	61	0.12
	Brest	?	65	N	2	b	?	?	55	53	— 4	N	4	0	2	70	52	—
	Lorient	29.80	68	SW	2	b	29.94	— .18	60	58	— 3	NNE	3	m	1	73	59	—
	Rochefort ...	29.89	69	WNW	4	m	29.77	— .20	63	63	— 3	WSW	3	r	2	75	57	0.04
	Belfort														*			
	Lyons														*			
	Nice...	29.91	72	SSW	3	b	29.89	— .08	70	64	+ 1	WSW	2	b	0	82	63	—
PENINSULA.	Perpignan ...	29.86	72	Z	0	c	29.77	— .19	73	69	+ 5	E	1	0	*	77	62	—
	Biarritz	29.89	65	WNW	4	r	29.78	— .18	64	63	0	W	3	0	2	70	63	0.20
	Corunna	*	*	*	*	*	29.88	— .07	59	57	— 7	N	2	r	4	72	55	0.63
	Lisbon	29.91	62	SSW	4	0	29.92	— .06	61	60	— 1	SSW	4	0	?	66	59	?

For Explanation of Columns, see p. 4.

‡ Received too late for insertion in Charts on p. 2

WEATHER CHARTS

for 8 a.m. on Sunday, 9th June, 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —*

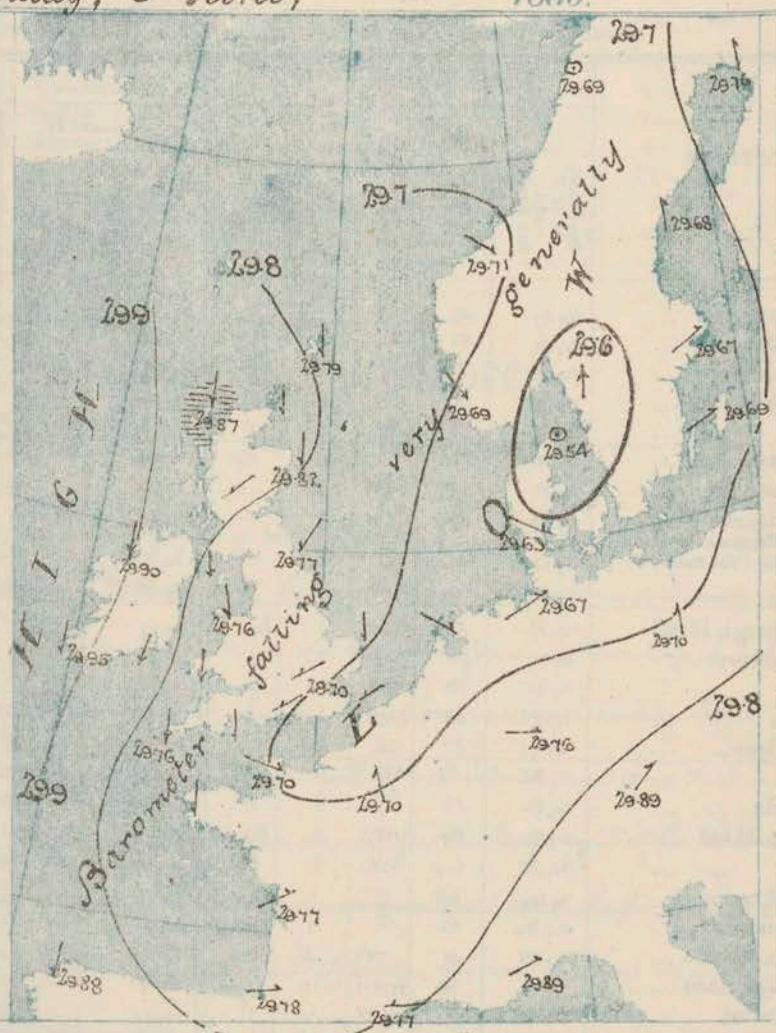
= forces above 10; = forces 6 to 10; = forces 5 to 7; = forces 1 to 4; ⊙ = dead calm.

Sea Disturbance — *where considerable, is shewn thus. = Rough. = High.*

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° Changes since previous morning are stated in words.*

Weather — *is shown by Letters of the Beaufort Scale.*

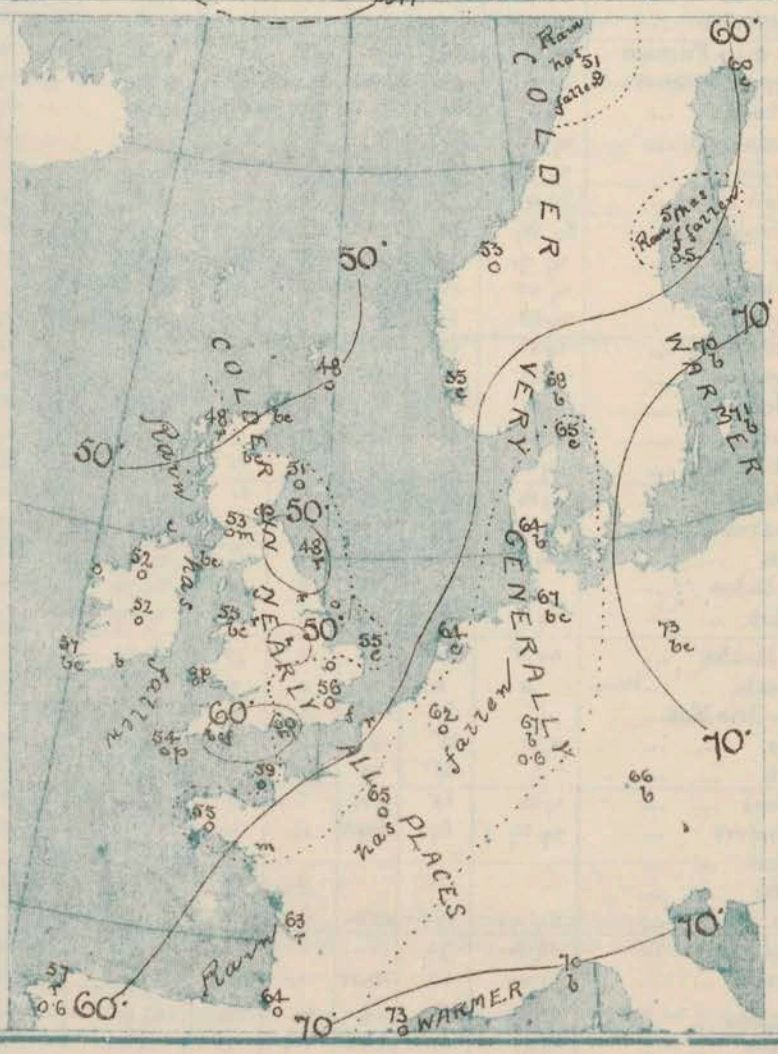
Rainfall — *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.*

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	at 8 a.m. Wet	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 16 years 1871—85, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 29·8 ins: to nearly 30·0 ins: over Scotland and Ireland and also over the Spanish Peninsula — 29·6 ins: and more over the southeast of France, Switzerland, and Austria. Lowest, 29·7 ins and less, in an irregularly shaped depression covering Scandinavia (Denmark), the Netherlands, the northeast of France and southeast of England. Gradients slight everywhere, but inclined to increase (for NE winds) over the United Kingdom. Barometer beginning to rise in extreme north and west, but was falling slowly elsewhere.

TEMPERATURE — Highest, 73° at Berlin and Perpignan, 71° at Metz, 70° at Nice and Stockholm, 68° at Sandes, and 67° at Cuthaven. Lowest, 48° at Lerwick and Stornoway, 49° at Loughborough, 51° at Aberdeen and Belmullet. It was inclined to fall very generally, and was becoming low for the time of year.

WIND — N, light to fresh, on our northern and western coasts and in Brittany — NW in Norway. W over the south of France and in Western Germany — S in Sweden — variable elsewhere. Over the eastern half of the Channel there is a cyclonic circulation of light winds.

WEATHER — Unsettled; — cloudy or overcast in most places, rainy in many; hazy over the Channel, very dull and gloomy in London, but clear and bright over Germany and the southeast of France. Rainfall had been general except in the southeast of England, but the amounts collected were small.

SEA — Moderate at the mouth of St George's Channel and at Corunna, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

for the 24 hours ending at **NOON** *on* 10th June 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED	6 SCOTLAND WEST	NONE ISSUED
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED

Note.—The **South Cone,** *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to *veer* towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to *veer* towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesmacs ...	29·88	59	51	NNW	4	bc	4
Sumburgh Head	29·86	53	50	SW	1	c	2
Stornoway ...	29·80	52	52	SW	2	r	2
Aberdeen ...	29·91	54	49	ESE	3	c	3
Shields	29·91	56	53	E	2	b	3
Ardrossan ...	29·90	56	54	SW	1	o	1
Malin Head ...	29·85	56	54	SSW	5	o	ir
Mullaghmore ...	29·90	55	54	SSW	4	od	3
Belmullet ...	29·92	57	55	WNW	4	o	*

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Holyhead ...	29·96	57	52	NW	1	bc	1
Valencia	30·03	55	55	SW	2	odm	3
Scilly	29·94	57	53	N	5	cm	4
Jersey	29·90	63	61	ENE	2	o	2
Dungeness ..	29·87	62	59	E	3	m	1
London	29·89	59	57	Z	0	agm	*
Yarmouth ...	29·89	57	56	NNW	3	c	3
Rochefort ...	29·95	62	59	WNW	3	c	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that the distribution of pressure was unusual. High-pressure areas of little intensity were found (1.) over Northern Europe, (2) over Ireland, Wales, and the north of England, (3) over Western Algeria and the south of Spain and (4) over Austria; while shallow low-pressure systems prevailed (1) over Sardinia, (2) the Black Sea, (3) Central Russia, (4) the north of France, (5) the Netherlands, Denmark, and the south of Sweden. Gradients were everywhere slight and the winds consequently light, and very variable. The weather was fine and bright over Southeastern and Central Europe, and on the eastern shores of the North Sea, as well as in many of the eastern parts of our Islands; cloudy or overcast elsewhere, with rain in a few places. In London the sky was densely overcast.

Temperature was very irregularly distributed — exceeding 70° over North Germany and at many of the Mediterranean and Southern French stations, but below 50° over many parts of Russia, and a very little above 50° in the British Isles, Norway, and Finland. The highest individual value was 80° at Lesina, 79° at Lisbon, 76° at Foglia, 75° at Berlin and Barcelona, 74° at Oran, Brindisi, and Trieste, and 73° at Algiers, Palermo, Sanguinaire, Lesina, Swinemunde and Neufahrwasser; the lowest were 40° at Archangel, 42° at Kharkov, 45° at Moscow, 46° at Kiev, 52° at Christiansund, Sumburgh Head, Stornoway, Malin Head, and Belmullet, 53° at Pembroke, Oxford and Loughborough.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Monday, 10th June, 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29.68	56	S	2	r	29.58	-.18	54	53	- 6	S	4	o	*	66	50	0.04
	Hernösand ...	29.59	50	S	2	r	29.52	-.16	58	55	+ 1	NW	2	o	*	59	50	0.28
	Stockholm ...	29.56	63	SE	2	o	29.54	-.13	66	62	- 4	S	0	o	*	75	57	-
	Wisby	29.61	67	S	4	b	29.60	-.09	71	64	0	SW	2	b	*	72	57	-
	Bodö	29.64	53	S	2	r	29.57	-.12	48	46	- 3	SW	2	o	1	55	46	0.08
	Christiansund...	29.69	50	NW	2	o	29.68	-.03	50	46	- 3	W	5	bc	3	55	45	.
	Skudesnaes ...	29.63	53	NW	8	o	29.75	+.06	52	45	- 3	NW	8	o	4	?	46	-
	Christiania Fjord (Færder)	29.48	65	S	6	b	29.51	-.04	61	57	- 7	N	6	b	3	68	59	.
	Skagen (The Scaw)	29.53	60	W	1	b	29.52	-.02	62	56	- 3	W	2	bc	1	72	54	-
	Fanö	29.61	57	NNW	4	c	29.63	.00	53	51	- 11	NNW	4	c	*	70	52	0.16
BRITISH ISLANDS.	Sumburgh Head	29.83	49	N	3	c	29.90	+.11	48	45	0	NNW	2	c	3	53	42	-
	Stornoway ..	29.94	50	NE	5	o	29.99	+.12	52	51	+ 4	NE	2	c	2	52	34	0.02
	Wick	29.90	54	NE	3	bc	29.97	+.16	54	51	- 3	N	3	bc	2	57	36	0.01
	Nairn	29.87	53	ENE	3	o	29.97	+.14	51	49	- 2	W	1	b	1	61	38	0.01
	Aberdeen... ...	29.87	51	N	3	c	29.98	+.16	52	46	+ 1	NW	3	bc	3	56	41	0.03
	Leith	29.83	52	E	1	bc	29.98	+.20	56	49	+ 6	NE	1	b	*	56	45	-
	Shields	29.75	51	N	1	r	29.90	+.13	51	48	+ 3	N	4	o	4	52	47	0.12
	Spurn Head ...	29.69	53	NNE	4	o	29.80	+.06	53	50	+ 1	NNE	6	o	5	53	50	0.03
	York	? 29.71	54	ENE	1	o	? 29.83	+.11	52	48	0	NNE	3	c	*	59	48	0.10
	Loughborough	29.72	52	NNE	1	o	29.81	+.06	51	48	+ 2	NNE	5	og	*	55	48	0.17
	Ardrossan ...	29.81	56	N	1	o	29.98	+.20	53	47	0	NE	1	bm	1	57	44	-
	Malin Head ...	29.85	53	N	5	b	29.99	+.14	51	50	- 1	ESE	3	op	3	55	49	-
	Mullaghmore ...	29.88	55	NNW	5	cp	29.99	+.09	55	52	+ 3	ENE	1	b	1	57	48	-
	Belmullet ...	29.95	54	N	4	c	30.03	+.06	53	47	+ 2	NNE	2	bc	*	56	47	0.03
	Donaghadee ...	29.82	53	NE	4	bc	29.99	+.19	51	48	- 1	NE	4	bc	2	56	49	-
	Barrow-in-Furness	? 29.72	54	NE	3	o	? 29.89	+.15	52	47	- 2	N	4	bc	*	58	45	0.45
	Liverpool (Bidston)	29.72	56	ENE	2	c	29.88	+.14	54	48	+ 1	NE	4	bc	4	61	49	0.01
	Holyhead ...	29.75	53	NNW	4	bc	29.91	+.15	54	49	- 1	NE	4	b	4	56	51	0.02
	Parsonstown ...	29.85	54	WNW	3	o	29.97	+.09	51	49	- 1	NW	1	o	*	59	44	-
	Valencia	29.94	54	NNW	4	cg	30.00	+.05	55	50	- 2	NNE	3	b	3	59	47	-
	Roche's Point...	29.84	58	NNW	4	b	29.94	+.08	55	51	+ 1	N	3	b	3	61	50	-
	Pembroke ...	29.73	55	N	6	bc	29.82	+.07	55	50	+ 3	NNE	6	bc	3	56	50	-
	Scilly	29.73	55	N	5	bc	29.76	.00	55	52	+ 1	NNE	6	cp	5	56	53	0.01
	Prawle Point ...	29.65	56	N	2	o	29.72	+.01	50	49	- 13	N	4	og	2	64	47	0.10
	Jersey	29.60	59	NNW	3	ogm	29.62	-.08	54	53	- 5	NNE	4	rm	3	64	52	1.12
	Hurst Castle ...	29.62	56	NNE	4	magp	29.65	-.05	53	52	- 7	NNE	6	cp	3	65	52	0.01
	Dungeness ...	29.59	57	E	3	o	29.54	-.14	54	53	- 1	NE	9	o	8	63	53	0.32
	London	29.64	56	NNE	8	og	29.67	-.03	50	49	- 6	NE	3	or	*	59	49	0.84
	Oxford	29.69	51	N	3	o	29.72	+.02	49	48	- 5	NE	5	rg	*	54	48	0.25
	Cambridge ...	29.69	56	NE	2	o	29.71	.00	50	50	- 4	NE	3	o	*	58	49	0.46
GERMANY.	Yarmouth ...	29.65	55	N	3	cg	29.67	-.04	52	51	- 3	NNE	6	ogr	6	58	50	1.10
	Cuxhaven ...	29.59	65	NNE	3	c	29.58	-.09	63	61	- 4	NE	3	c	*	74	61	0.24
	Berlin	29.60	80	Z	0	bc	29.63	-.07	75	67	+ 2	SW	2	b	*	90	66	-
	Wiesbaden ...	*	*	*	*	*	29.67	-.09	66	63	- 1	S	2	b	*	80	61	0.04
	Munich	29.71	67	E	2	b	29.77	-.12	65	60	- 1	NE	2	b	*	79	57	-
FRANCE & NETHERLANDS.	The Helder ...																	
	Brussels .. ... 9 AM	*	*	*	*	*	29.56	-.12	66	61	+ 4	SW	3	c	*	72	61	0.39
	Cape Gris Nez...	?	55	NE	4	o	?	?	54	51	- 1	NE	7	r	7	61	54	0.71
	Paris	29.60	67	SE	2	o	29.54	-.16	61	57	- 4	S	3	o	*	73	58	0.08
	Brest	?	56	N	5	c	?	?	51	51	- 4	NNW	3	r	3	70	46	0.98
	Lorient	29.63	60	N	5	o	29.60	-.14	54	52	- 6	NW	4	o	4	68	52	0.04
	Rochefort ...	29.64	64	SW	5	r	29.72	-.05	60	59	- 3	WNW	5	c	2	68	52	1.02
	Belfort														*			
	Lyons	29.67	69	S	3	o	29.70	...	63	58		S	1	bc	*	81	54	0.67
	Nice...	29.83	68	SE	3	c	29.82	-.07	58	58	- 12	E	5	r	4	79	55	0.32
	Perpignan ...	29.62	77	NW	2	bc	29.75	-.02	61	55	- 12	NW	3	r	*	81	57	-
	Biarritz	29.72	63	W	6	r	29.81	+.03	59	52	- 5	WNW	6	o	?	70	57	0.28
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon																	

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 8*

WEATHER CHARTS

for 8 a.m. on Monday, 10th June 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —*

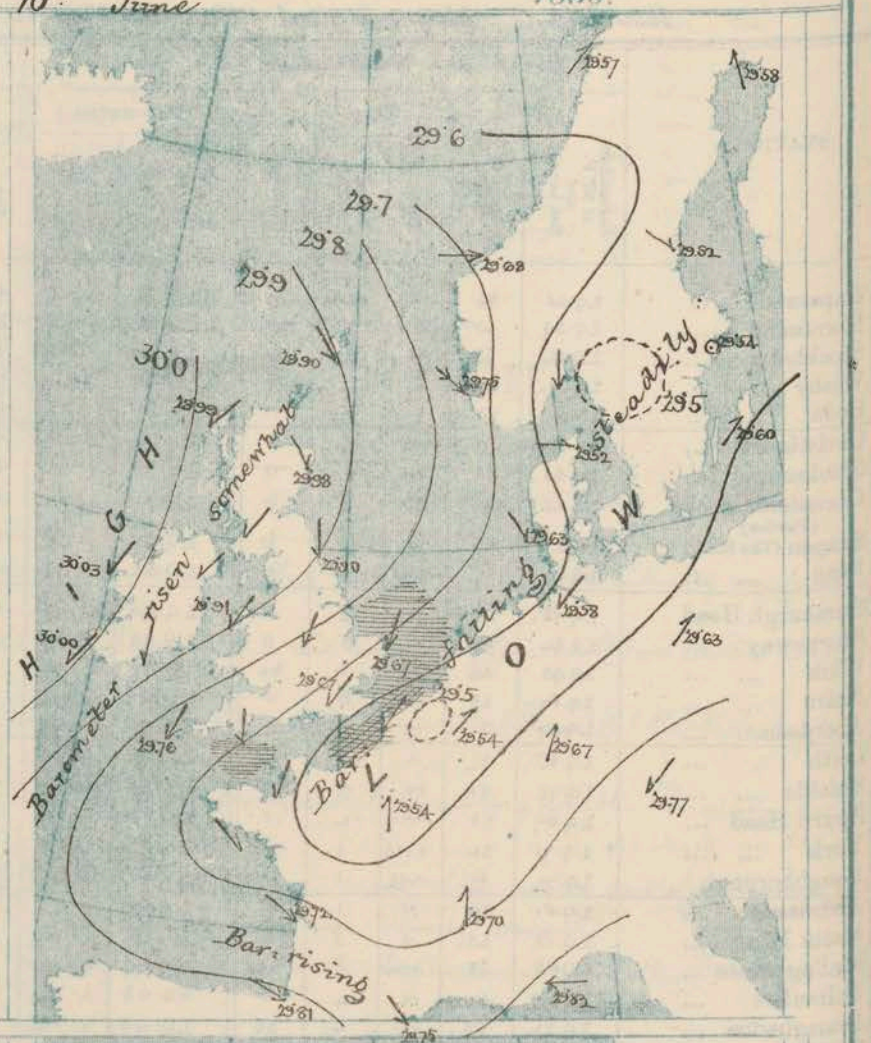
= forces above 10; = forces 8 to 10;
= forces 5 to 7; = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — *where considerable, is shewn thus.*
= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. in.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10°. Changes since previous morning are stated in words.*

Weather *is shown by Letters of the Beaufort Scale.*

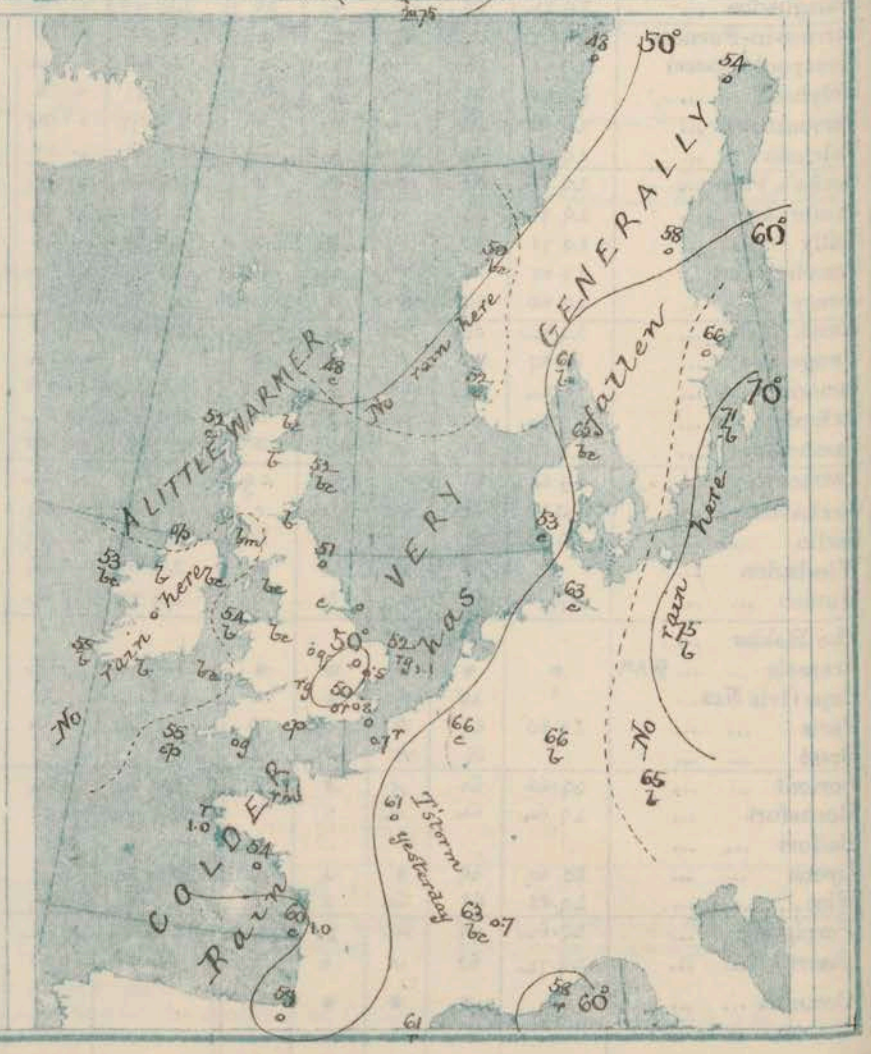
Rainfall *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.*

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June.

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches)
Sumburgh Head	54·3	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·9	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	63·2	51·4	56·3	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE - Highest, 30·0 ins. to 29·9 ins. over Ireland, Scotland and the north of England — apparently 29·8 ins. and more over Spain and also over Scandinavia.
Lowest, 29·5 ins. to 29·6 ins. over the Netherlands, Normandy and the southeast of England.
Gradients slight in the west and north, rather steep in the southeast and south.
Barometer rising slowly in most places.

TEMPERATURE - Highest, 75° at Berlin, 71° at Vichy, 66° at Stockholm, Wiesbaden and Brussels, 63° at Lyons, and 61° at Paris.
Lowest, 48° at Bodo and Sumburgh Head, 48° at Dufftown, 50° at Christiansund and in London, 51° at Navin, Holyhead, Loughborough and Brest.
The daily maxima yesterday were as low as 52° or 53° on our northeast coast, 55° at Lerwick and in London, but as high as 90° at Berlin, 80° at Wiesbaden, and 75° at Paris.

WIND - W. to SW. in the northwest of Norway — SSE. at Haparanda.
Variable, and light to moderate, from the N. in Ireland and Scotland.
N. to NE. over England, very strong and squally at the eastern and southern stations.
NW. over the Bay of Biscay — SW. over North Germany, Belgium, and the northeast of France.

WEATHER - Fine and bright at our northern and western stations, as well as in Germany and the east of France.
Cloudy or overcast elsewhere, with rain in the east and south.
Some rain fell in the north and northeast yesterday and heavy rain in the south and east during the night. Thunderstorms occurred over France yesterday.

SEA - High in the Straits of Dover, rough in the Channel generally and on our East coast; moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

It is probable that during the coming twenty-four hours the weather will clear up in the south and East, and that tonight will be very cold over England. Fair weather is likely to continue in the west and north.

FORECASTS

for the 24 hours ending at NOON on 11th JUNE. 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NW. and W. breezes, light to moderate; fair	6 SCOTLAND WEST	N. breezes, moderate; fair generally.
1 SCOTLAND EAST	Very light breezes, fine generally.	7 ENGLAND N.W.	
2 ENGLAND N.E.	N. to NW. breezes, light; fine.	8 ENGLAND S.W	
3 ENGLAND EAST	Same as No. 5	9 IRELAND NORTH	
4 MIDLAND COUNTIES	Same as No. 2	10 IRELAND SOUTH	
5 ENGLAND SOUTH	Wind backing to N. or NW. moderate to light; weather improving, very cold tonight.	WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▽) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (△) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.67	56	50	NW 7	0	3
Sumburgh Head						
Stornoway ...	29.91	52	52	N 4	0	4
Aberdeen ...						
Shields						
Ardrossan ...						
Malin Head ...	29.87	55	50	N 5	b	4
Mullaghmore ...						
Belmullet ...	29.95	54	49	N 4	bc	*

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Holyhead ...	29.76	55	53	NNW 4	bc	4
Valencia						
Scilly						
Jersey	29.65	61	56	NW 3	0	3
Dungeness ...	29.63	55	54	E 3	0	2
London						*
Yarmouth ...						
Rochefort ...	29.72	63	62	W 4	r	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The Continental Information has not yet arrived.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 2ND TO THE 8TH JUNE 1889.

The weather during this week was marked by general and considerable variations. On Sunday (June 2nd), under the influence of a large depression off our western coasts, and smaller disturbances in the east, temperature was high, and thunderstorms of great severity were experienced over almost the whole of Great Britain; in Flintshire, and the northern parts of Norfolk the hail was exceptionally dense and large, and in many places the clouds were peculiarly heavy. In London lightning was observed during the evening, but no thunder was recorded, not did any rain fall. In the succeeding 48 hours an anticyclone passed northwards across France and the United Kingdom to the extreme north of our area, the consequence being that fine, dry, bright weather prevailed all over the British Islands, and continued until Thursday. Some disturbances were then developed over France, and spreading northwards caused a renewal of the thunderstorms over the SErn, and Srn Midland counties of England in the evening, while similar disturbances in the north caused thunder and rain over the east of Scotland. Friday brought an improvement to Scotland, but over the southern parts of England and in the northeast of France* thunderstorms again occurred, and in some localities the rainfall was very heavy. In Ireland and Scotland the weather was fine and bright, but on Saturday rain began to spread over those countries from the Atlantic, while in England the weather was dull, and cool, and the general appearance gloomy.

* In the Daily Weather Report for Saturday it is stated, erroneously, that the thunderstorms occurred over Brittany.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Tuesday 11th JUNE 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29.43	50	W	2	c	29.55	— .03	53	46	— 1	W	4	b	*	59	48	0.16
	Hernösand ...	29.65	54	NW	2	b	29.84	+ .32	58	49	— 5	NW	2	bc	*	63	48	—
	Stockholm ...	29.66	53	N	4	o	29.88	+ .24	55	47	— 11	N	4	b	*	68	52	0.32
	Wisby	29.84	63	WSW	2	b	29.83	+ .23	58	51	— 13	ENE	4	o	*	82	?	—
	Bodö	29.54	48	WSW	5	c	29.65	+ .08	46	43	— 2	W	4	c	4	52	43	0.20
	Christiansund...	29.83	49	W	5	o	29.88	+ .20	51	46	+ 1	WSW	4	c	3	51	45	0.16
	Skudesnaes ...	29.86	57	NW	6	b	29.87	+ .12	53	47	+ 1	NW	6	b	3	55	45	—
	Christiania Fjord (Farder)	29.67	68	2	0	b	29.86	+ .35	63	54	+ 2	ESE	4	b	3	68	61	—
	Skagen (The Scaw)	29.68	62	WNW	1	b	29.82	+ .30	63	56	+ 1	E	2	b	2	72	59	—
	Fanö	29.76	55	NW	4	c	29.81	+ .18	63	57	+ 10	NW	2	bc	*	63	48	—
BRITISH ISLANDS.	Sumburgh Head	29.93	52	W	1	b	29.83	— .07	52	49	+ 4	S	3	c	2	53	42	—
	Stornoway ..	29.94	55	NE	2	c	29.80	— .19	52	52	0	SW	5	r	5	56	45	0.04
	Wick	30.00	54	S	1	b	29.84	— .13	57	55	+ 3	S	2	bc	1	61	49	—
	Nairn	29.93	59	SW	1	b	29.85	— .12	58	55	+ 4	WSW	3	b	1	64	40	—
	Aberdeen... ...	30.00	51	ENE	3	b	29.92	— .06	57	46	+ 5	S	2	b	2	59	42	—
	Leith ...	30.00	56	E	1	b	29.96	— .02	56	50	0	NE	1	bm	*	59	37	—
	Shields	29.96	54	N	3	b	29.96	+ .06	54	49	+ 3	NNE	1	c	3	56	43	—
	Spurn Head ...	29.88	52	NNE	6	o	29.93	+ .13	52	50	— 1	NNE	4	o	4	53	49	—
	York	29.89	53	N	3	o	29.93	+ .10	51	48	— 1	NNE	1	o	*	58	46	—
	Loughborough	29.89	50	NNE	3	r	29.93	+ .12	50	48	— 1	NE	2	o	*	54	48	0.05
	Ardrossan ...	29.97	59	WNW	1	b	29.95	— .03	55	50	+ 2	S	1	b	1	61	43	—
	Malin Head ...	29.97	54	E	2	b	29.90	— .09	56	51	+ 5	SSW	4	b	3	57	48	—
	Mullaghmore ...	29.99	58	WNW	3	b	29.92	— .07	57	50	+ 2	S	5	b	2	61	45	—
	Belmullet ...	30.02	55	NNE	2	b	29.92	— .11	56	51	+ 3	SW	3	c	*	57	46	—
	Donaghadee ...	30.00	58	NE	3	b	29.97	— .02	55	52	+ 4	SSE	4	m	2	61	50	—
	Barrow-in-Furness	29.94	57	NE	2	bc	29.97	+ .08	51	47	— 1	NE	2	b	*	58	42	—
	Liverpool (Bidston)	29.93	55	NE	4	c	29.97	+ .09	52	47	— 2	NE	1	o	3	59	47	—
	Holyhead ...	29.96	54	NNE	4	b	29.96	+ .05	56	51	+ 2	ENE	2	bw	2	56	48	—
	Parsonstown ...	29.97	62	2	o	bc	29.97	.00	56	49	+ 5	2	o	b	*	62	42	—
	Valencia	30.01	57	NNW	3	b	29.98	— .02	55	52	0	SSW	1	bc	1	61	42	—
	Roche's Point...	29.98	56	SSE	2	bc	29.97	+ .03	57	53	+ 2	SE	1	b	2	62	49	—
	Pembroke ...	29.90	54	N	5	bc	29.94	+ .12	53	50	— 2	NNE	2	cgm	1	58	49	—
	Scilly	29.85	55	NNE	6	c	29.91	+ .15	56	52	+ 1	NNE	4	cm	3	56	52	—
	Prawle Point ...	29.87	57	N	6	o	29.88	+ .16	52	50	+ 2	N	3	og	2	53	46	—
	Jersey	29.73	52	NNE	3	rq	29.85	+ .23	55	54	+ 1	N	1	ogm	1	55	51	0.83
	Hurst Castle ...	29.75	57	NNE	4	m	29.85	+ .20	53	53	0	NNE	4	md	3	56	50	0.10
	Dungeness ...	29.63	55	NE	4	rq	29.82	+ .30	56	50	+ 2	SSW	3	o	3	61	53	0.05
	London	29.76	50	N	3	or	29.84	+ .17	53	52	+ 3	NE	1	od	*	58	48	0.49
	Oxford	29.85	49	NNE	3	o	29.89	+ .17	49	49	0	NE	5	rg	*	52	48	0.14
	Cambridge ...	29.84	51	N	2	r	29.88	+ .17	52	52	+ 2	N	1	r	*	52	48	0.69
	Yarmouth ...	29.77	52	NE	6	ogq	29.85	+ .18	52	52	0	NE	5	ogd	5	53	49	0.43
GERMANY.	Cuxhaven ...	29.69	65	N	3	b	29.80	+ .22	63	59	0	N	1	c	*	70	?	—
	Berlin	29.68	48	SW	2	c	29.75	+ .12	73	64	— 2	N	3	c	*	88	66	—
	Wiesbaden ...	*	*	*	*	*	29.88	+ .21	67	61	+ 1	NW	3	b	*	79	59	0.12
	Munich	29.80	60	W	2	c	29.93	+ .16	63	59	— 2	NW	3	o	*	77	57	0.51
FRANCE & NETHERLANDS.	The Helder ...	29.78	57	NE	3	c	29.86		59	56		ENE	1	c	2	59	55	0.04
	Brussels 9am	*	*	*	*	*	29.89	+ .33	61	56	— 5	WSW	2	b	*	73	57	—
	Cape Gris Nez...	?	57	NE	6	r	?	?	57	54	+ 3	WSW	3	bc	4	63	54	0.59
	Paris	29.72	66	SW	3	b	29.92	+ .38	57	53	— 4	SW	1	b	*	72	48	0.04
	Brest	?	52	NNE	8	r	?	?	52	51	+ 1	NNE	2	o	2	54	48	0.08
	Lorient	29.71	55	NE	4	o	29.85	+ .25	53	52	— 1	NNE	3	o	2	59	50	—
	Rochefort ...	29.83	61	W	5	c	29.90	+ .18	58	57	— 2	SE	3	c	2	64	52	—
	Belfort	29.84	62	W	1	o	29.89		67	61		W	1	o	*	74	54	0.24
	Lyons	29.87	69	WNW	2	c	29.89	+ .19	57	54	— 6	N	2	c	*	74	51	0.08
	Nice...	29.80	64	NE	2	b	29.90	+ .08	66	?	+ 8	E	2	b	0	73	55	?
	Perpignan ...	29.83	66	W	1	c	29.82	+ .07	58	58	— 3	2	o	r	*	73	55	0.08
	Biarritz	29.89	62	WNW	4	o	29.91	+ .10	54	52	— 5	SW	2	r	3	64	52	0.28
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30.02	59	NW	4	c	30.10	+ .10	58	52	— 2	NW	4	c	2	64	52	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Tuesday, 11th June, 1889.

BAROMETER, WIND & SEA.

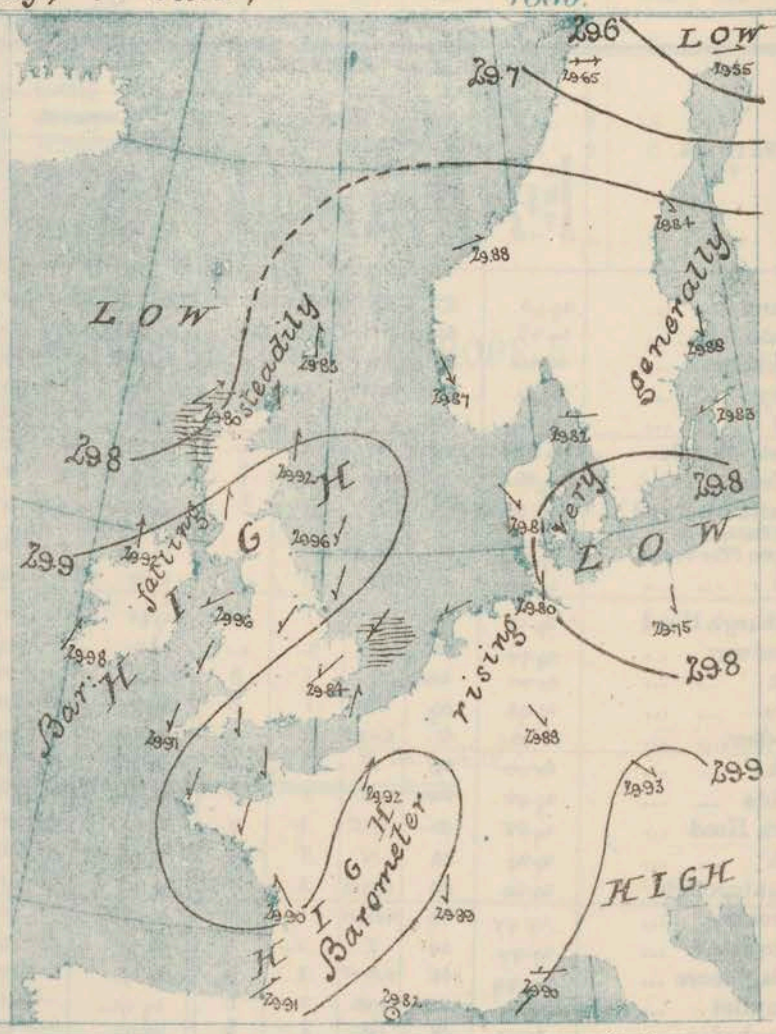
(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevailed winds. They fly with the wind and their barbs and feathers refer to force, thus —*

⟶ = forces above 10, ⟶ = forces 8 to 10;
⟶ = forces 5 to 7, ⟶ = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — *where considerable, is shewn thus.*
= Rough. = High.



MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June.
During the 15 Years 1871 — 1885.

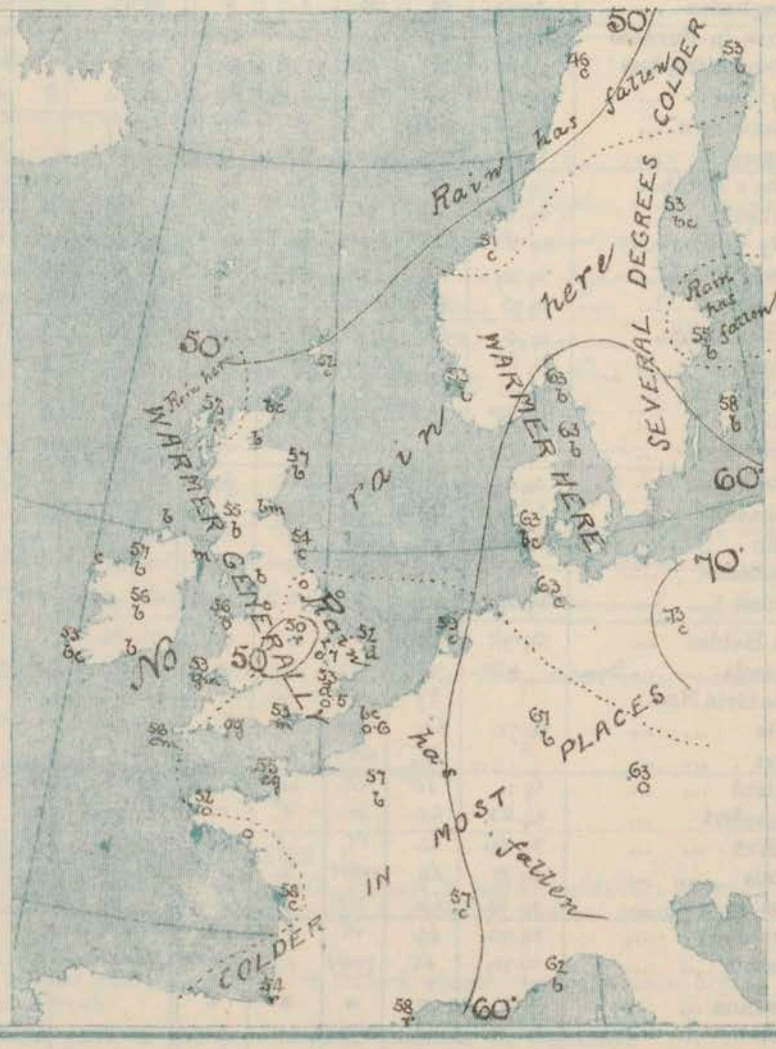
STATIONS.	MEAN READINGS. in.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963

TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° Changes since previous morning are stated in words.*

Weather *is shown by Letters of the Beaufort Scale.*

Rainfall *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.*



MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June.

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	at 8 a.m. Wet.	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornowsy	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Longhborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·28
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	63·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85 the Rainfall means are mainly those for the 20 years 1866-85

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30.10 ins. at Lisbon.
Lowest 29.6 ins. and less, over the north of Sweden; 29.8 ins. and less, in a shallow depression lying over North Germany and the southern parts of the Baltic.
Gradients slight and irregular. Barometer falling in Ireland and Scotland, but rising elsewhere.

TEMPERATURE — Highest 73° at Berlin, 67° at Wiesbaden and Belfort, and 63° at Faerder, Skagen, Fano and Munich.
Lowest 46° at Bodö, 49° at Oxford, 50° at Lundburgh Head and Loughborough, and 51° at Christiansund, York and Barrow in Furness.
The maxima registered yesterday over the central and eastern parts of England were below 55°.

WIND — Light to fresh from the S. or SW. in Ireland and Scotland, but from the NE. over England.
Moderate from W. or NW. over the greater part of Scandinavia, Denmark and Germany.
Variable over France and the Netherlands.

WEATHER — Fine at our western, northern and most of the Continental stations.
Dull over England with rain and mist over our Midland, eastern and southeastern counties.
Since yesterday morning 0.5 in. of rain has fallen in London, 0.6 in. at Cape Gris Nez, & 0.7 in. at Cambridge.

SEA — Rather rough at Stornoway and Yarmouth, but moderate to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A ridge of high pressure is apparently moving southeastwards across our Islands, and a gradual improvement in the weather is probable over England. Conditions are, however, not likely to become settled just at present.

FORECASTS

for the 24 hours ending at NOON on 12TH JUNE 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW. and S. winds, fresh; dull, some rain.	6 SCOTLAND WEST	Same as No. 1.
1 SCOTLAND EAST	SW. and S. winds, moderate; fair generally.	7 ENGLAND N. W.	Same as No. 2.
2 ENGLAND N.E.	Variable breezes, finally SW.; fair generally.	8 ENGLAND S. W	NE. to variable breezes; fair generally.
3 ENGLAND EAST	NE. winds, light or moderate; dull at first with occasional rain, but improving later.	9 IRELAND NORTH	S. and SW. winds, freshening; fine to cloudy, and some rain.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None Issued.

Note.—The **South Cone**, *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesmues ...	29.79	55	47	NW 8	b	4	Holyhead ...	29.95	54	50	NE 4	b	4
Sumburgh Head	29.92	52	48	NNW 2	b	3	Valencia	30.02	61	55	NNE 3	bv	3
Stornoway ...	29.98	52	52	SE 2	c	2	Scilly	29.84	55	53	NNE 6	o	5
Aberdeen ...							Jersey	29.70	53	52	NNE 4	o	3
Shields	29.95	55	51	N 4	bc	4	Dungeness ...	29.59	59	57	NE 7	o	5
Ardrossan ...	29.98	60	53	WNW 1	b	1	London	29.73	57	50	NNE 3	dp	*
Malin Head ...	30.00	56	52	E 3	b	2	Yarmouth ...	29.94	52	51	NE 6	cq	6
Mullaghmore ...	30.00	58	53	WNW 2	b	2	Rochefort ...	29.98	63	57	W 5	c	3
Belmullet ...	30.04	57	50	N 2	b	*							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was decreasing irregularly over France, Germany, Austria and southern Europe as well as over the Baltic and eastern shores of the North Sea, while it was increasing steadily on our western and northern coasts. Readings varied from a little above 30.0 ins. in the west of Ireland, the southwest of Spain and southern Russia and from about 29.85 ins. at Moscow and St Petersburg, to less than 29.6 ins. in a low pressure band stretching from Normandy across Holland, Holstein and Denmark to Sweden and Lapland. In this band were two well defined minima, one near Boulogne, and the other a little to the southeastward of Christiansund and both were growing deeper. The wind was N.ly and NE.ly over the United Kingdom, NW.ly over Scandinavia the Bay of Biscay and Spain, S.ly and SW.ly over the Netherlands and Germany, SE.ly to S.ly over the Baltic Provinces and Sweden. In the extreme southeast of England the NE.ly wind had risen to a strong gale, and to a strong breeze on our eastern and southern coasts generally, while the NW.ly wind over the Bay of Biscay and in Norway was also strong. The weather had become clear and bright over the western and northern parts of the United Kingdom, and remained bright over central Europe, Hungary and the southwest of Russia. In the east and south of the British Islands, the west of France and the Netherlands, however, it was very gloomy, squally, rainy and unsettled – the amounts of rain exceeding one inch at several stations. Over Scandinavia also it was dull and unsettled. Temperature continued to recover in Russia, and was high over Germany, but had fallen over the Mediterranean, France & the I's of England – in the latter region it was very low for the time of year. The highest individual values were 78° at Neufahrwasser, 75° at Berlin and Swinemunde as well as at Lacolle and Ogden, 74° at Trieste, 73° at Lesina, 72° at Algiers, Barcelona and Brindisi and 71° at Leghorn & Stockholm; the lowest were 48° at Berlin and Sumburgh Hd., 49° at Archangel, at Oxford, 50° in London and at Cambridge, and 51° in many other parts of our Islands as well as at St Petersburg, 53° at Moscow. The NE.ly gale blew hard over the eastern parts of Kent throughout the greater part of the day, and cold rain continued to fall over the southeast of England generally, and over the greater part of France. In Austria the weather was fine and warm.

Remarks on the weather for the 24 hours ending at 8 am on 10TH JUNE.

The reports for Sunday morning showed that pressure varied from 29.9 ins. and more, off our extreme western coasts, the southwest of Spain, and over the Balkan Peninsula and southern Russia, to 29.7 ins. and less, in an elongated area of low-pressure which stretched from the English Channel across the Netherlands and North Sea to Denmark, the Baltic and Scandinavia. The wind was consequently N.ly over the British Islands and Brittany W.ly in the southwest of France, SW.ly to S.ly over Central Europe and on the shores of the Baltic, S.ly in the north of Sweden. The weather was unsettled over western and northern Europe – rainy in many places – but fine in Germany, Austria and Russia, as well as over the eastern parts of the Mediterranean. Temperature remained above 70° over Germany and the south of Sweden, and also at most of the Mediterranean stations, but had been low for the time of year over the British Islands and the northern parts of France. In southern Russia, however, it was rising. The highest individual values were 79° at Barcelona, 75° at Algiers, 74° at Palermo and Trieste, 73° at Perpignan, Berlin and Swinemunde and 70° or 71° at Stockholm, Wisby, Copenhagen, Lesina, Pesaro and Nice. The lowest were 43° at Archangel, 46° at Moscow, 48° at Sumburgh Head, Stornoway and Shields, 49° at Oxford, 50° at St Petersburg and Leith, and 54° in London.

Later on the barometer began to rise on our western and northern coasts, and while the sky cleared in Ireland and Scotland, heavy rain set in over our southeastern and southern districts with strong cold NE.ly winds.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for WEDNESDAY 12TH JUNE 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda .. ‡	29.86	52	WNW	2	b	29.85	+.30	57	46	−2	WNW	2	b	*	?	43	—
	Hernösand ... ‡	29.86	57	S	2	bc	29.85	+.01	54	51	+1	W	2	bc	*	70	45	—
	Stockholm ... ‡	29.94	54	S	2	b	29.96	+.08	64	53	+9	SSE	2	b	*	68	48	—
	Wisby ... ... ‡	29.94	54	E	4	b	29.93	+.10	61	51	+3	ESE	4	b	*	63	52	—
	Bodö	29.79	48	WNW	4	o	29.72	+.07	51	46	+5	E	2	o	?	?	41	0.20
	Christiansund...	29.80	54	SE	1	o	29.75	−.13	56	49	+5	WSW	1	b	2	?	50	—
	Skudesnaes ...	29.88	55	NW	4	b	29.86	−.01	55	49	+2	X	0	o	2	?	43	—
	Christiania Fjord (Færder)	29.83	69	SW	3	b	29.84	−.02	66	62	+3	S	5	o	2	70	?	—
	Skagen (The Scaw)	29.85	67	SSE	1	b	29.82	0.0	66	62	+3	S	3	o	2	81	63	0.08
	Fanö	29.83	61	W	1	c	29.86	+.25	65	59	+2	WNW	4	bc	*	68	55	—
BRITISH ISLANDS.	Sumburgh Head	29.76	53	S	3	c	29.72	−.11	52	52	0	SW	2	o	2	56	47	0.05
	Stornoway ..	29.73	52	SW	6	r	29.76	−.04	53	52	+1	W	3	c	3	54	48	0.20
	Wick	29.77	60	NW	1	bc	29.77	−.07	55	58	−2	NW	1	o	1	65	52	0.07
	Nairn	29.75	63	W	3	bc	29.78	−.07	59	54	−1	WSW	3	c	1	69	53	0.04
	Aberdeen... ...	29.82	54	S	4	b	29.81	−.11	58	53	+1	SE	1	c	2	61	47	—
	Leith	29.83	59	SW	1	b	29.84	−.12	59	53	+3	W	1	c	*	64	50	—
	Shields	29.88	52	ESE	3	c	29.87	−.09	59	52	+5	W	2	c	2	59	46	—
	Spurn Head ...	29.91	53	NE	2	o	29.91	−.02	57	54	+5	WSW	2	c	2	59	51	—
	York	29.88	56	ENE	1	c	29.84	−.09	59	52	+8	W	1	b	*	62	51	—
	Loughborough	29.92	55	NE	1	o	29.93	0.0	59	56	+9	WSW	1	cmr	*	59	50	—
	Ardrossan ...	29.84	58	WSW	2	b	29.86	−.09	53	52	−2	WSW	3	o	2	61	52	—
	Malin Head ...	29.83	53	W	3	o p	29.86	−.04	53	51	−3	W	2	o	2	61	51	0.07
	Mullaghmore ...	29.85	55	WSW	3	po	29.89	−.03	57	52	−4	NNW	1	o	1	66	52	0.04
	Belmullet ...	29.84	55	SSW	4	r	29.92	0.0	54	50	−2	NNW	1	o	*	58	51	0.10
	Donaghadee ...	29.87	57	SSW	3	c	29.89	−.08	56	55	+1	E	3	m	1	58	52	—
	Barrow-in-Furness	29.89	57	NW	3	b	29.89	−.08	54	51	+3	SSW	3	o	*	59	50	—
	Liverpool (Bidston)	29.90	57	NNW	1	o	29.93	−.04	62	52	+10	S	1	bc	1	62	50	—
	Holyhead ...	29.91	53	NNE	1	b	29.92	−.04	55	53	−1	SSW	4	og	3	59	49	—
	Parsonstown ...	29.87	63	E	0	o	29.90	−.07	56	54	0	E	0	o	*	67	53	0.03
	Valencia	29.92	55	SSE	3	o m	29.95	−.03	56	54	+1	W	4	b	1	59	52	0.03
	Roche's Point...	29.95	58	SW	3	bc	29.93	−.04	56	54	−1	SW	1	of	3	60	52	—
	Pembroke ...	29.93	54	NW	2	b	29.95	+.01	56	54	+3	S	2	bc	1	58	50	—
	Scilly	29.94	57	NNW	2	b	29.94	+.03	57	53	+1	SW	2	c	2	58	50	—
	Prawle Point ...	29.93	53	WSW	1	o	29.98	+.10	54	52	+2	WSW	1	om	0	57	48	—
	Jersey	29.92	58	WNW	3	bc	30.00	+.15	55	52	0	X	0	om	0	62	51	—
	Hurst Castle ...	29.90	56	NW	3	m	29.97	+.12	57	56	+4	NNW	1	mod	1	57	52	0.01
	Dungeness ...	29.90	57	WSW	3	b	29.94	+.10	54	54	−2	SW	2	f	2	63	52	—
	London	29.87	57	X	0	o	29.95	+.11	55	54	+2	W	1	og	*	61	53	0.01
	Oxford	29.91	53	NE	2	o	29.95	+.06	57	54	+8	X	0	bc	*	58	49	0.01
	Cambridge ...	29.91	57	N	1	o	29.95	+.07	57	55	+5	X	0	o	*	61	50	0.03
GERMANY.	Yarmouth ...	29.89	57	ENE	2	bc	29.92	+.07	54	53	+2	E	1	cm	3	58	51	—
	Cuxhaven ...	29.88	65	WNW	2	b	29.88	+.08	66	63	+3	W	2	b	*	68	?	—
	Berlin	29.83	65	NW	1	o	29.89	+.14	66	62	−7	WNW	4	c	*	79	61	0.83
	Wiesbaden ...	*	*	*	*	*	29.89	+.01	68	63	+1	NE	3	b	*	75	59	—
	Munich	29.91	65	X	0	c	29.91	−.02	66	62	+3	NE	3	c	*	72	55	0.08
FRANCE & NETHERLANDS.	The Helder ...	29.89	?	NNE	1	?	29.93	+.07	58	54	−1	W	1	b	1	68	52	—
	Brussels	*	*	*	*	*	29.94	+.05	61	56	0	NE	1	b	*	72	54	—
	Cape Gris Nez...	?	59	SSW	1	b	?	?	52	52	−5	X	0	f	0	63	50	—
	Paris	29.90	68	SW	1	b	29.94	+.02	61	59	+4	NNE	2	b	*	73	50	—
	Brest	?	55	N	2	c	?	?	55	53	+3	N	2	o	3	61	54	—
	Lorient	29.90	63	NW	2	bc	29.98	+.13	52	50	0	NNW	2	b	2	64	50	—
	Rochefort ...	29.93	62	NW	4	c	29.95	+.05	60	59	+2	N	4	r	2	72	52	—
	Belfort	29.86	72	W	2	bc	29.85	−.04	69	62	+2	W	1	bc	*	79	59	0.12
	Lyons	29.87	59	NNE	2	c	29.88	−.01	59	59	+2	NNW	1	c	*	75	55	0.16
	Nice...																	
PENINSULA.	Perpignan ...	29.75	56	SW	3	b	29.85	+.03	60	59	+2	W	2	c	*	67	52	1.88
	Biarritz	29.89	59	N	4	r	29.93	+.02	60	55	+6	NW	6	r	4	63	?	0.24
	Corunna	*	*	*	*	*												
	Lisbon.	30.14	58	SSW	3	b	30.17	+.07	58	52	0	N	3	bc	2	64	54	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Wednesday, 12th June 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus —*

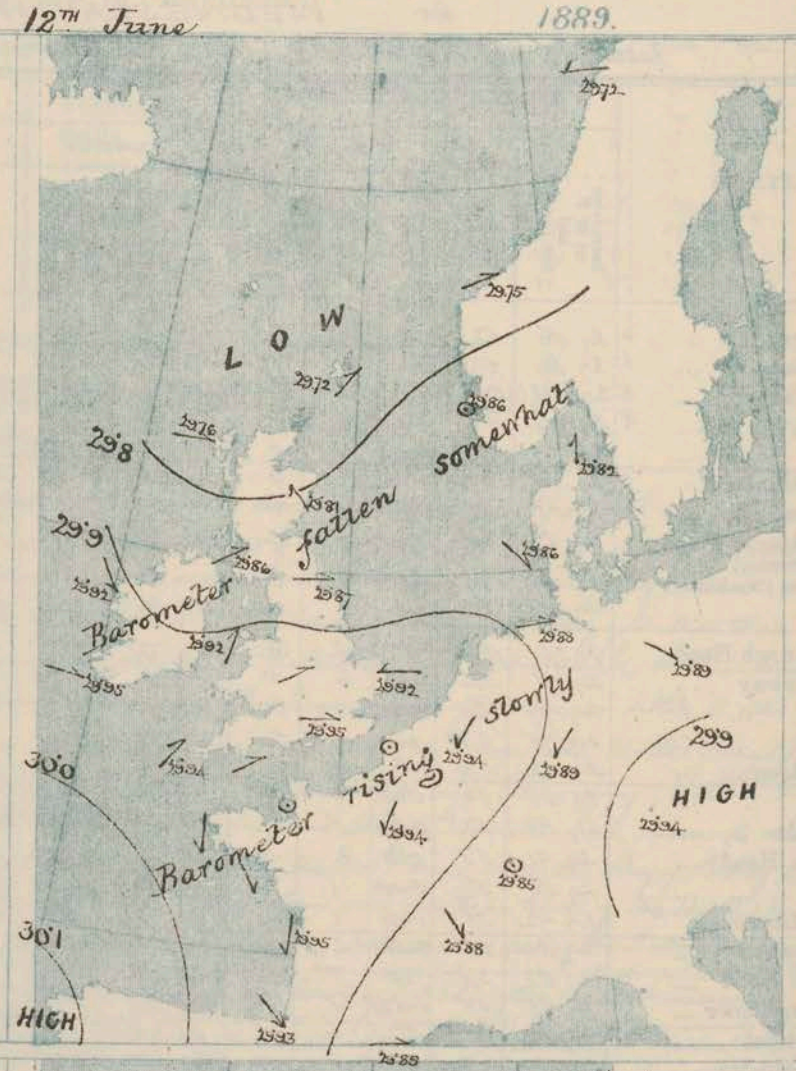
⟶ = forces above 10; ⟶ = forces 6 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — *where considerable is shewn thus.*
= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M.

with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° Changes since previous morning are stated in words.*

Weather *is shown by Letters of the Beaufort Scale.*

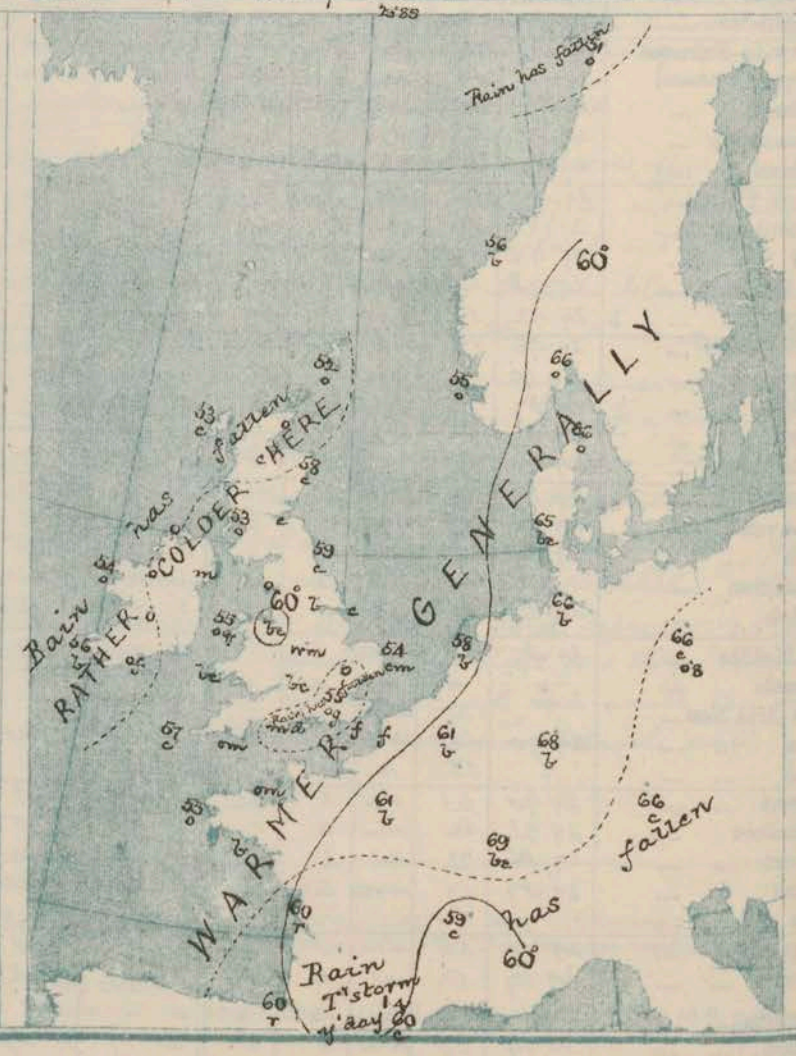
Rainfall. *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more, are quoted in figures.*

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst-Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·5	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·1 ins: and upwards in Portugal.
Lowest, 29·8 ins: and less, in the west of Norway and the north of Scotland.
Gradients slight. Barometer falling Norway and the northern parts of our Islands, but rising elsewhere.

TEMPERATURE — Highest, 69° at Belfast, 68° at Wiesbaden and 66° at Faerder, Skagen, Cuxhaven, Brest and Munich.
Lowest, 51° at Boeö, 52° at Dumbuoy Head and 53° at Stornoway, Ardrossan, Malin Head and Mullaghmore.
The maxima registered yesterday were below 60° in many parts of England and Ireland, but at Nairn the thermometer rose to 63°

WIND — Light from the W.ward or SW.ward over the greater part of our Islands, but variable in the north of Ireland.
Light or moderate from NW. or N. in France and from NE. in Western Germany.
Variable in the west of Norway, S.ly at Faerder and Skagen.

WEATHER — Fine over the central parts of the United Kingdom and France, as well as in Germany, the Netherlands and the south of Denmark.
Dull elsewhere, with mist in the Channel, fog in the Straits of Dover and rain in the southwest of France.
Slight rain fell yesterday in the extreme west and north of our Islands and also in the southwest of England.

SEA — Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometric fall in the north seems to be spreading southwards, and the small depression over our northwest coasts may possibly occasion a renewal of unsettled rainy weather over England.

FORECASTS

for the 24 hours ending at NOON on 13th June 1889.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W.ly winds, light; cloudy, some rain.
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	SW.ly and W.ly winds, light; fair to dull and some rain.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as Nos 0 to 2.
7 ENGLAND N.W.	SW.ly to W.ly winds, light or moderate; cloudy, some rain.
8 ENGLAND S.W.	
9 IRELAND NORTH	W.ly and NW.ly winds, light; cloudy, some rain.
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.89	58	52	NW 6	b	3
Sumburgh Head	29.81	55	52	S 3	b	3
Stornoway ...	29.75	53	53	SW 6	o	5
Aberdeen ...	29.86	57	47	SSE 4	bq	4
Shields	29.93	53	49	E 2	bc	3
Ardrossan ...	29.89	60	55	WSW 1	b	1
Malin Head ...	29.84	60	56	NW 2	c	2
Mullaghmore ...	29.86	65	55	SSW 5	cm	3
Belmullet ...	29.88	53	52	SSW 4	p	*

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Holyhead ...	29.95	55	50	NNE 3	b	2
Valencia	29.96	59	54	SSW 3	ov	3
Scilly	29.94	58	52	NNW 3	bc	3
Jersey	29.91	61	58	NW 3	bc	3
Dungeness ...	29.88	61	57	SSW 3	bc	2
London	29.88	60	55	ENE 2	o	*
Yarmouth ...	29.89	57	56	ENE 3	bc	4
Rochefort ...	29.93	66	61	NW 3	c	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure varied from between 29·3 ins: and 30·1 ins: over the north of England Ireland, the Bay of Biscay and the Spanish Peninsula as well as over Southeastern Europe to less than 29·6 ins: over Lapland, Finland, the White Sea and north of Russia. Its distribution between the regions named was, however, very irregular — shallow disturbances being found over the Mediterranean, Brittany, North Germany, and the Baltic Provinces. The wind was consequently exceedingly variable — but mainly SW to S on our western and northern coasts, W in the north of Norway, NW over Sweden and Finland, and N over England and the Channel. The weather was fine over Northern, Eastern, and several parts of Central Europe, as well as in the north and west of the British Islands — cloudy or overcast elsewhere, with rain in the southeast of England, the Baltic Provinces, and the north of Spain. Temperature was low for the time of year in most places; over North Germany, however, and at several of the Mediterranean stations it continued above 70°, while at Bodo and in some parts of England it was below 50°. The highest individual values were 76° at Cagliari, 75° at Brindisi, 73° at Algiers, Lisbon and Berlin, 72° at Cracow and Warsaw, 71° at Lyon, Lesina, and Swinemunde; the lowest were 46° at Bodo, 49° at Oxford, 50° at Loughborough and at Archangel, 51° at Christiansund, and 52° at Stornoway, Liverpool, and Cambridge.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

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DAILY WEATHER REPORT.

for Thursday 13th June *1889.*

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. **SCOTT**, *Secretary.*

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29.48	53	S	2	bc	29.44	— .11	52	48	+ 1	S	4	o	*	59	39	—
	Hernösand ...	29.75	56	S	4	c	29.75	— .10	63	56	+ 9	S	2	bc	*	68	52	—
	Stockholm ...	29.87	55	2	o	b	29.85	— .11	64	55	0	2	o	b	*	68	48	—
	Wisby	29.89	53	NE	4	b	29.89	— .04	55	50	— 6	WNW	2	b	*	68	45	—
	Bodö	29.67	56	SW	2	b	29.68	— .04	53	52	+ 1	SW	4	c	2	57	41	0.12
	Christiansund...	29.44	57	W	6	c	29.79	+ .04	55	51	— 1	WSW	5	c	3	59	50	0.08
	Skudesnaes ...	29.87	56	WSW	1	c	29.90	+ .04	57	52	+ 2	S	2	c	2	63	50	—
	Christiania Fjord (Fiarder)	29.49	65	S	4	c	29.80	— .04	67	60	+ 1	2	o	b	?	67	63	—
	Skagen (The Scaw)	29.80	58	W	1	o	29.82	.00	61	56	— 5	W	3	b	3	68	52	—
	Fanö	29.92	54	W	3	b	29.96	+ .10	63	57	— 2	WNW	2	b	*	63	52	—
BRITISH ISLANDS.	Sumburgh Head	29.77	54	SW	3	c	29.80	+ .08	55	52	+ 3	2	o	c	1	57	48	—
	Stornoway ..	29.80	56	W	3	c	29.71	— .05	53	51	0	S	3	c	3	58	48	—
	Wick	29.83	56	E	1	bc	29.78	+ .01	57	52	+ 2	S	1	b	0	60	47	—
	Nairn	29.81	62	W	2	b	29.72	— .06	59	53	+ 2	2	o	b	?	63	44	—
	Aberdeen... ...	29.83	56	ENE	1	c	29.85	+ .04	58	51	0	SSE	2	c	1	65	47	—
	Leith ...	29.86	62	W	1	bc	29.85	+ .01	60	56	+ 1	N	1	cm	*	66	51	—
	Shields	29.88	62	W	1	o	29.87	.00	56	54	— 3	E	1	bm	2	63	54	—
	Spurn Head ...	29.89	58	SE	2	c	29.91	.00	58	55	+ 1	2	o	b	0	62	53	—
	York	? 29.87	66	W	1	c	? 29.89	+ .05	59	55	0	WNW	1	b	*	73	47	—
	Loughborough	29.91	68	S	1	b	29.94	+ .01	57	55	— 2	SE	1	cmw	*	72	47	—
	Ardrossan ...	29.88	57	2	o	o	29.89	— .03	55	54	+ 2	S	3	cm	3	61	52	—
	Malin Head ...	29.87	58	2	o	c	29.77	— .09	55	51	+ 2	SSW	3	c	2	58	48	—
	Mullaghmore ...	29.89	57	NW	2	cw	29.75	— .14	56	51	+ 3	S	5	cm	3	59	46	—
	Belmullet ...	29.90	55	SW	2	bc	29.70	— .22	56	54	+ 2	SSW	5	ow	*	59	52	—
	Donaghadee ...	29.90	55	NE	3	bc	29.84	— .05	55	55	— 1	SSW	2	f	0	58	52	0.02
	Barrow-in-Furness	29.93	57	WSW	3	b	29.90	+ .01	57	54	+ 3	ESE	3	bc	*	60	53	—
	Liverpool (Bidston)	29.93	63	NW	1	b	29.91	— .02	62	54	0	SSE	2	b	2	65	50	—
	Holyhead ...	29.93	55	SSW	4	bc	29.90	— .03	56	53	+ 1	S	4	cg	3	61	50	—
	Parsonstown ...	29.91	61	2	o	o	29.83	— .07	58	53	+ 2	SE	1	o	*	61	50	—
	Valencia	29.95	59	SSW	1	b	29.80	— .15	56	55	0	SSE	6	rm	6	62	52	—
	Roche's Point...	29.94	58	SW	1	c	29.89	— .04	56	54	0	SW	3	o	4	65	50	—
	Pembroke ...	29.96	56	SSW	2	b	29.93	— .02	55	54	— 1	SSW	2	bc	1	59	52	—
	Scilly	29.95	58	S	3	f	29.95	+ .01	57	54	0	SW	1	o	3	63	53	—
	Prawle Point ...	29.97	57	W	3	bc	29.98	.00	56	54	+ 2	WSW	2	bc	1	59	46	—
	Jersey	29.98	59	WNW	3	b	30.01	+ .01	57	54	+ 2	NW	3	bmw	3	62	45	—
	Hurst Castle ...	29.96	58	W	3	cw	29.98	+ .01	57	54	0	W	3	c	1	62	49	—
	Dungeness ...	29.94	59	SW	2	c	29.96	+ .02	56	54	+ 2	E	2	f	1	64	47	—
	London	29.92	62	W	1	o	29.95	.00	62	54	+ 7	SW	1	o	*	64	54	—
	Oxford	29.95	61	S	1	b	29.96	+ .01	57	54	0	SW	1	c	*	65	50	—
	Cambridge ...	29.95	61	SW	1	c	29.95	.00	59	57	+ 2	S	1	o	*	66	50	—
GERMANY	Yarmouth ...	29.95	55	SE	2	cf	29.95	+ .04	54	53	0	SE	2	bcf	2	58	49	—
	Cuxhaven ...	29.92	61	WNW	3	b	29.96	+ .08	61	58	— 5	NE	2	b	*	67	60	—
	Berlin	29.89	70	NE	3	bc	29.95	+ .06	68	59	+ 2	NE	2	bc	*	77	61	—
	Wiesbaden ...	*	*	*	*	*	29.89	.00	70	65	+ 2	N	3	c	*	79	61	—
	Munich	29.89	58	2	o	c	29.94	+ .03	59	58	— 7	W	3	o	*	72	52	0.57
FRANCE & NETHERLANDS.	The Helder ...	29.95	60	2	o	b	29.96	+ .03	62	57	+ 4	ENE	1	b	1	64	55	—
	Brussels 9am	*	*	*	*	*	29.96	+ .02	58	56	— 3	2	o	bc	*	74	54	—
	Cape Gris Nez...	?	55	SW	1	f	?	?	57	54	+ 5	ESE	1	b	0	59	52	—
	Paris	29.90	70	N	2	bc	29.95	+ .01	57	56	— 4	N	2	o	*	76	55	0.12
	Brest	?	59	NW	1	b	?	?	55	53	0	E	1	o	1	61	48	—
	Lorient	29.97	61	WNW	4	b	30.04	+ .06	54	52	+ 1	2	o	b	1	63	52	—
	Rochefort ...	29.96	62	NW	5	c	30.01	+ .06	60	59	0	NW	4	o.	2	66	54	0.08
	Belfort	29.88	64	W	2	bc	29.91	+ .06	60	58	— 9	W	1	bc	*	76	56	1.50
	Lyons	29.93	60	NNE	1	o	29.94	+ .06	55	54	— 4	ENE	1	f	*	66	50	0.04
	Nice...	29.91	64	SE	3	c	29.88	— .03	56	54	— 4	ENE	4	c	2	72	50	0.69
PENINSULA.	Perpignan ...	29.92	61	W	3	b	29.98	+ .13	59	54	— 1	NW	3	o	*	69	56	—
	Biarritz	30.04	59	NW	5	o	30.07	+ .14	56	52	— 4	WSW	3	c	2	61	54	0.32
	Corunna ... ... ‡	*	*	*	*	*	30.13	+ .01	61	59	+ 1	W	2	o	2	63	55	0.08
	Lisbon	30.17	60	WNW	4	o	30.19	+ .02	59	56	+ 1	NW	3	o	2	68	57	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Thursday, 13th June, 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevailing winds. They fly with the wind and their barbs and feathers refer to force, thus —*

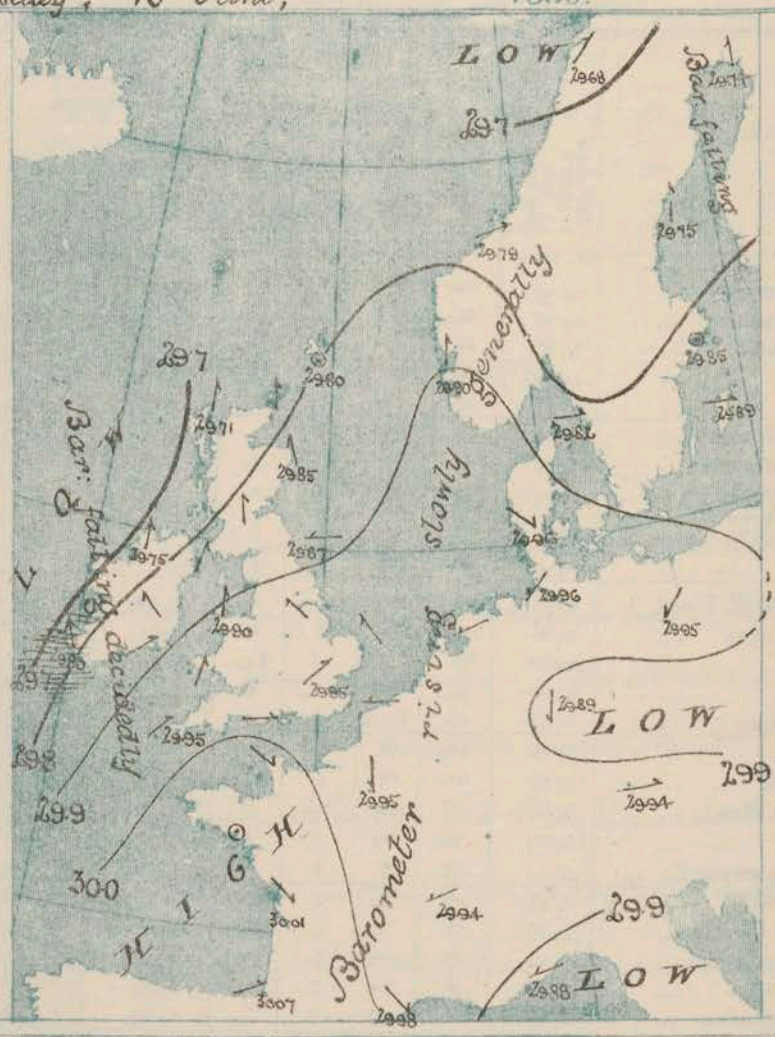
⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — *where considerable, is shewn thus.*
= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10°. Changes since previous morning are stated in words.*

Weather — *is shown by Letters of the Beaufort Scale.*

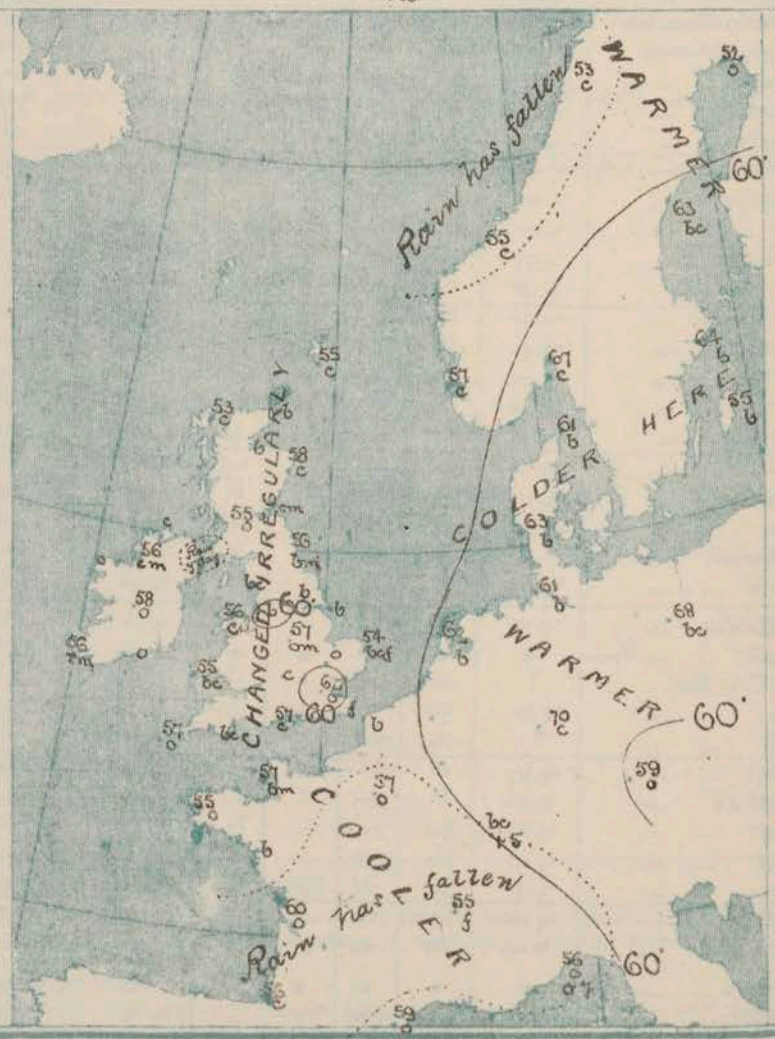
Rainfall. *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more, are quoted in figures.*

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	Wet.	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85 the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·1 ins. and upwards, over the Iberian Peninsula.
Lowest 29.7 ins. and less, in a depression lying to the westward of our Islands, and also in the north of Norway.
Gradient moderate in the extreme west, but slight elsewhere.
Barometer falling in the west and north of our Islands, and also in Sweden, but rising elsewhere.

TEMPERATURE — Highest 70° at Wiesbaden, ~~64° at Munich~~, 68° at Berlin, 67° at Faerder, 64° at Stockholm, and 63° at Hernosand & Fano.
Lowest 52° at Haparanda, 53° at Bodo and Stornoway, 54° at Yarmouth, and 55° at Wisby, Christiansund, Lumburgh Head, Ardrossan, Malin Head, Donaghadee and Pembroke.
The highest maxima registered over our Islands yesterday were 73° at York, and 72° at Loughborough.

WIND — S^ly in the west and north of our Islands; fresh or strong in force in the west of Ireland.
Light and variable in the Netherlands, and the east and southeast of England.
SW^ly or S^ly at most of the Scandinavian stations; NW^ly over the greater part of France.

WEATHER — Fair generally but foggy at Donaghadee, Yarmouth, Dungeness and Lyons, and rainy at Valencia.
Heavy rain fell yesterday at some of the French and German stations, the largest amounts being 1·5 in. at Belfort, and 0.7 in. at Nice.

SEA — Rough at Valencia, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the west of Ireland will probably move northwards, and occasion unsettled weather at many of our western and northern stations. Over the greater part of England, however, conditions will probably remain fair for the present.

FORECASTS

for the 24 hours ending at NOON on 14th JUNE *1889.*

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	S^ly winds, freshening; fine to unsettled and some rain, possibly thunder.	6 SCOTLAND WEST 7 ENGLAND N.W.	SE^ly and S^ly winds; freshening; fair to unsettled and some rain.
2 ENGLAND N.E.	Variable breezes, finally S^ly; fair generally.	8 ENGLAND S.W	S^ly and SW^ly winds, freshening; fair generally.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	Light breezes, chiefly SW^ly; fair generally warmer.	9 IRELAND NORTH 10 IRELAND SOUTH	S^ly winds, strong; dull, some rain, thunder locally.
		WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between N. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesmes ...	29.80	63	55	NW	4	bc	2
Sumburgh Head	29.76	56	53	SW	3	c	3
Stornoway ...	29.79	58	57	W	5	c	4
Aberdeen ...	29.81	63	57	NNE	2	c	2
Shields	29.87	? 63	58	WSW	1	c	2
Ardrossan ...	29.89	59	55	W	3	o	2
Malin Head ...	29.89	56	52	W	2	o	1
Mullaghmore ...	29.93	57	53	WNW	2	cv	2
Belmullet ...	29.92	56	50	WNW	2	o	*

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Holyhead ...	29.94	60	55	SSW	4	bc	4
Valencia	29.97	61	54	NW	2	bv	2
Scilly	29.97	62	57	SSW	3	o	3
Jersey	30.00	62	56	WNW	2	b	2
Dungeness ...	29.94	59	56	SW	3	f	2
London	29.95	64	58	W	1	o	*
Yarmouth ...	29.95	56	55	ESE	2	ef	3
Rochefort ...	29.97	64	61	NW	5	o	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was somewhat high, (30.0 ins to nearly 30.2 ins) over Spain and Portugal, and also over the Black Sea and South of Russia; it was lowest, (about 29.7 ins) off the west of Norway and north of Scotland, and rather low over Central Europe, the southern parts of France, and neighbouring parts of the Mediterranean. Gradients, however, were slight everywhere, and while the mercury was rising in most places – especially over the Baltic and north of Russia, it was falling a little on our northern coasts. The wind was light and variable – N.ly to W.ly over the western counties, S.ly over the Baltic and south of Sweden, but too variable elsewhere to be quoted in detail. The weather showed some improvement in the northwest, but was still unsettled in the south, fine in the east. Thunderstorms had again been prevalent over Northern Germany and the south of France. Temperature was inclined to increase over England, France and the Netherlands, and to decrease in Germany, Austria and at several of the Mediterranean stations. It had fallen considerably below 70° in several parts of Germany, and at most of the Mediterranean stations. Readings were, however, still recorded as high as (1) 76° at Trieste, 73° at Brindisi, 72° at Sfax, 71° at Rome, and 70° at Leghorn, Lesina and Palermo; (2) 75° at New Fahrwasser, 71° at Memel, and 70° at Warsaw. The lowest morning values were 51° at Archangel, Haparanda and Bodö, 52° at Kuopio and Sumburgh Head, 54° at Hernösand, Yarmouth, Prawle Point, Barrow-in-Furness and Belmullet, and 55° in London.

Later in the day temperature increased to between 70° and 79° at the German stations, and to 73° at York and 72° at Loughborough, but did not exceed 64° in London. Heavy rain again fell in various parts of France, but in the United Kingdom the weather was fair.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for *Friday, 14th June,* *1889.*

Issued by the Meteorological Office, 63 Victoria Street, London. ***R. H. SCOTT,*** *Secretary.*

	STATIONS.	† YESTERDAY EVENING.					8 A.M. TO DAY.									PAST 24 HOURS.		
		Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29.71	51	SW	2	c	29.75	+.01	62	50	+ 10	N	2	b	*	?	46	-
	Hernösand ...	29.76	62	2	0	bc	29.91	+.16	61	53	- 2	NE	2	b	*	77	55	0.04
	Stockholm ...	29.83	63	S	2	b	29.90	+.05	72	61	+ 8	SW	2	b	*	73	50	-
	Wisby	29.88	60	S	2	b	29.92	+.03	62	59	+ 7	SE	2	b	*	72	48	-
	Bodö	29.71	51	WSW	6	0	29.86	+.18	50	49	- 3	WSW	4	b	2	54	46	0.08
	Christiansund...	29.88	56	W	2	b	29.85	+.06	58	54	+ 3	E	3	m	1	59	52	-
	Skudesnaes ...	29.89	58	SSE	2	c	29.92	+.02	57	54	0	S	6	f	4	63	52	-
	Christiania Fjord (Færder)	29.79	68	SW	3	b	29.89	+.09	67	56	0	NNW	3	b	2	70	63	-
	Skagen (The Scaw)	29.88	59	W	1	b	29.90	+.08	64	59	+ 3	WNW	3	b	2	68	55	-
	Fanö	29.94	55	NW	1	b	29.95	-.01	66	60	+ 3	SE	1	b	*	66	50	-
BRITISH ISLANDS.	Sumburgh Head	29.73	56	SE	3	b	29.75	-.05	51	51	- 4	NW	1	o	3	59	49	0.01
	Stornoway ..	29.62	54	W	6	r	29.78	+.07	54	49	+ 1	SW	3	c	3	56	41	0.05
	Wick	29.69	60	S	2	c	29.80	+.02	58	54	+ 1	NW	2	bc	1	65	49	0.10
	Nairn	29.68	65	W	2	bc	29.81	+.09	55	50	- 4	SW	1	b	1	71	52	0.04
	Aberdeen... ...	29.77	57	SSE	2	b	29.84	-.01	54	52	- 4	N	1	ogp	2	62	54	0.01
	Leith ...	29.78	62	W	3	c	29.83	-.02	60	56	0	W	1	cm	*	69	55	-
	Shields	29.79	69	WSW	3	b	29.89	.00	58	55	+ 2	S	3	o	2	70	51	-
	Spurn Head ...	29.86	60	SSE	3	bc	29.93	+.02	61	57	+ 3	SE	2	b	2	69	54	-
	York	? 29.80	69	SSW	3	b	? 29.88	-.01	59	56	0	SSW	1	c	*	74	49	-
	Loughborough	29.88	68	SSW	3	b	29.96	+.02	59	55	+ 2	SW	3	c	*	72	49	-
	Ardrossan ...	29.75	58	S	3	o	29.85	+.02	57	53	+ 2	W	3	b	2	60	51	0.07
	Malin Head ...	29.69	56	SSW	4	ar	29.85	+.08	54	52	- 1	SW	2	bm	3	62	50	0.12
	Mullaghmore ...	29.73	53	WNW	5	r	29.87	+.12	54	50	- 2	SSW	3	om	3	59	48	0.32
	Belmullet ...	29.78	55	WNW	4	o	29.86	+.16	54	51	- 2	SSW	2	o	*	56	46	0.21
	Donaghadee ...	29.78	59	SW	2	c	29.90	+.06	55	53	0	NE	2	bc	o	64	54	0.03
	Barrow-in-Furness	29.87	59	SW	3	b	29.88	-.02	55	54	- 2	SW	4	d	*	61	53	0.05
	Liverpool (Bidston)	29.86	66	W	3	b	29.91	.00	59	56	- 3	SSE	2	o	2	69	53	0.03
	Holyhead ...	29.87	56	SSW	4	cg	29.90	.00	54	54	- 2	S	0	gm	0	61	52	0.21
	Parsonstown ...	29.78	58	S	0	r	29.92	+.09	55	51	- 3	SE	1	c	*	62	43	0.14
	Valencia	29.85	56	NW	2	om	29.94	+.14	54	52	- 2	SSE	1	om	1	58	45	0.41
	Roche's Point...	29.81	56	E	5	rm	29.90	+.01	57	54	+ 1	NW	1	c	3	57	51	0.15
	Pembroke ...	29.91	55	SSW	3	c	29.92	-.01	55	55	0	SE	2	f	3	58	54	0.13
	Scilly	29.91	58	SSW	4	o	29.94	-.01	58	57	+ 1	WSW	2	of	3	62	53	0.06
	Prawle Point ...	29.97	55	W	2	m	29.98	.00	54	54	- 2	SSW	2	f	2	56	51	0.02
	Jersey	29.99	64	W	3	b	30.04	+.03	57	55	0	S	3	ogm	3	64	54	-
	Hurst Castle ...	29.95	60	W	4	bc	30.03	+.05	56	55	- 1	SW	3	opd	2	66	54	-
	Dungeness ...	29.93	58	SW	3	c	29.99	+.03	57	55	+ 1	W	3	c	2	65	51	-
	London	29.92	70	SW	2	bc	30.00	+.05	57	54	- 5	WSW	1	o	*	72	51	-
	Oxford	29.93	61	S	1	b	29.99	+.03	54	52	- 3	SSW	3	o	*	69	53	-
	Cambridge ...	29.91	67	SW	1	c	29.98	+.03	60	58	+ 1	SW	1	c	*	71	48	-
	Yarmouth ...	29.92	56	SE	3	bc	29.95	-.01	59	58	+ 5	S	0	bm	2	59	49	-
GERMANY.	Cuxhaven ...	29.94	64	N	3	b	29.92	-.04	68	64	+ 7	E	3	b	*	69	?	0.10
	Berlin	29.90	73	E	3	b	29.92	-.03	68	58	0	ENE	3	bc	*	79	61	-
	Wiesbaden ...	*	*	*	*	*	29.85	-.04	66	64	- 4	S	0	o	*	81	61	0.12
	Munich	29.85	61	SW	5	o	29.93	-.01	60	57	+ 1	NW	4	c	*	70	50	0.04
FRANCE & NETHERLANDS.	The Helder ...	29.93	63	NE	1	bc	‡ 29.95	-.01	64	61	+ 2	NE	1	b	1	70	61	-
	Brussels	*	*	*	*	*									*			
	Cape Gris Nez...	?	57	ESE	1	f	?	?	53	52	- 4	SW	2	f	1	66	52	-
	Paris	29.92	69	NW	2	c	30.03	+.08	55	54	- 2	NW	2	bc	*	74	54	0.12
	Brest	?	58	N	3	o	?	?	57	56	+ 2	WNW	3	m	3	61	48	-
	Lorient	30.04	59	W	4	o	30.04	.00	59	58	+ 5	SW	3	o	3	66	54	-
	Rochefort ...	30.06	63	NW	5	bc	30.14	+.13	58	57	- 2	W	3	o	2	66	52	-
	Belfort														*			
	Lyons	29.99	64	E	1	o	29.99	+.05	60	57	+ 5	NW	3	o	*	71	?	-
	Nice...	29.93	55	ENE	3	bc	29.95	+.07	59	55	+ 3	E	4	o	1	70	54	-
	Perpignan ...	30.02	60	NW	2	c	30.09	+.11	62	55	+ 3	NW	3	c	*	62	59	0.08
	Biarritz	30.10	62	WNW	4	c	30.16	+.09	61	57	+ 5	S	0	o	1	64	?	-
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30.21	61	NW	4	o	30.25	+.06	61	58	+ 2	N	4	c	2	66	57	?

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 8*

WEATHER CHARTS

for 8 a.m. on Friday, 14th June, 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —

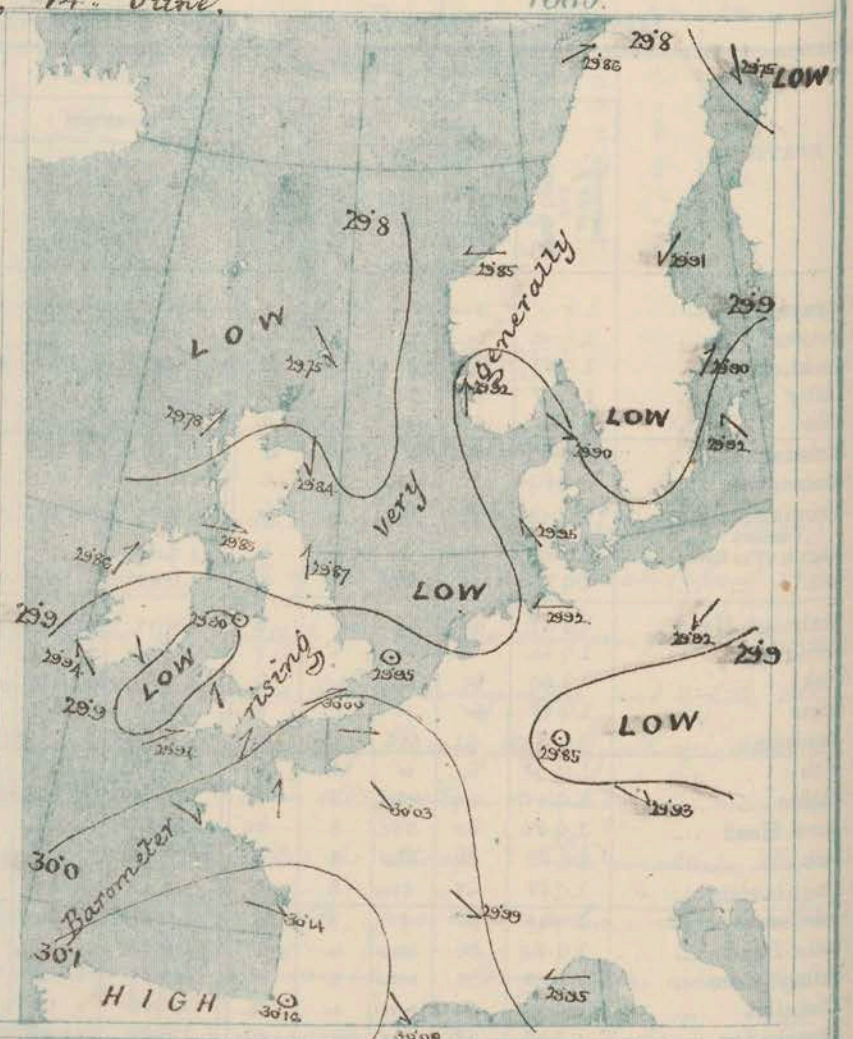
⊛⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — where considerable, is shewn thus.
= Rough = High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·923
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

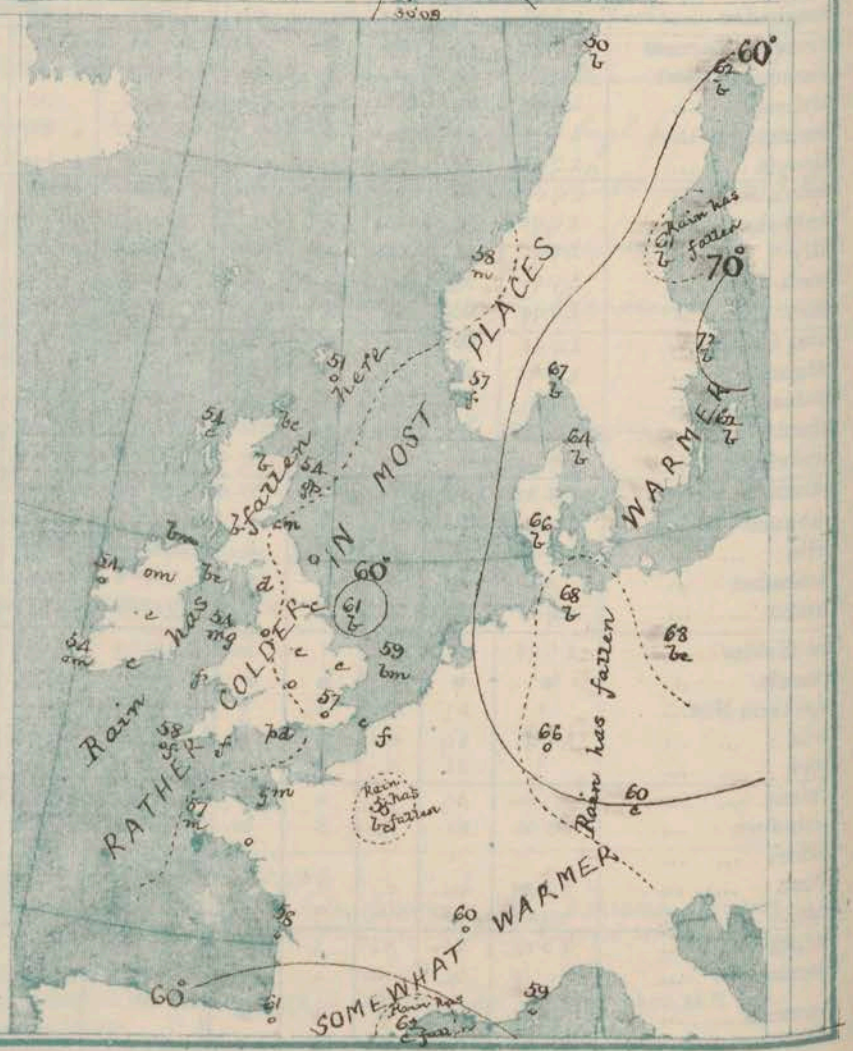
Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	at 8 a.m. Wet	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

Note – The Temperature means are for the 15 years 1871–85, the Rainfall means are mainly those for the 20 years 1866–85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·2 ins: and upwards in Portugal.
Lowest, 29·8 ins: and less, in the extreme northern parts of Scotland and Sweden. Shallow depressions are found over the North Sea and our W.ⁿ coast.
Gradients slight and irregular. Barometer rising generally, but change very slight in the west of Ireland.

TEMPERATURE — Highest, 72° at Stockholm, 69° at Berlin, 68° at Cuxhaven, 67° at Faeroes, 66° at Jassy, and 64° at Skagen.
Lowest, 50° at Bodö, 51° at Scarborough Head, and 54° at Stornoway, Aberdeen, Malin Head, Belmullet, Mullaghmore, Holyhead, Valencia, Pembroke and Oxford.
The highest maxima registered over our Islands yesterday were 74° at York, and 72° at Loughborough and in London.

WIND — Rather variable over our Islands, but chiefly light from the SW.ⁿᵈ.
SE.ᵗʰ on the eastern shores of the North Sea; variable in Sweden.
Light or moderate from the NW.ⁿᵈ over South Germany and the Central and Southern parts of France.

WEATHER — Fair generally, but dull in many parts of the United Kingdom and France.
Fog prevails in the southwest of England, and slight rain is falling at Aberdeen, Barrow in Furness, and Hurst Castle.
Rain fell yesterday at most of our western and northern stations.

SEA — Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depressions which are passing across our Islands will probably occasion showers in most districts with thunder locally.

FORECASTS

for the 24 hours ending at NOON on 15th June. 1889.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	W.ⁿ to S.ᵗʰ winds, light; fair generally, but some showers.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	SW.ᵗʰ and S.ᵗʰ winds, light; cloudy, some showers, thunder locally.
6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W	SW.ᵗʰ to S.ᵗʰ winds, moderate; changeable, some showers.
9 IRELAND NORTH 10 IRELAND SOUTH	S.ᵗʰ winds, light to fresh; dull, some rain.
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.91	63	57	SSE 2	bc	2
Sumburgh Head	29.79	58	52	S 2	b	2
Stornoway ...	29.65	56	56	S 5	o	4
Aberdeen ...	29.80	61	55	SSE 3	bc	2
Shields	29.82	63	57	SE 2	c	2
Ardrossan ...	29.79	58	55	S 3	o	2
Malin Head ...	29.69	57	56	S 4	o	2
Mullaghmore ...	29.71	57	55	S 5	or	4
Belmullet ...	29.69	56	55	WSW 4	r	*

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Holyhead ...	29.89	59	54	SSW 4	b	4
Valencia	29.79	57	57	SW 4	om	4
Scilly	29.94	62	56	SSW 4	o	3
Jersey	30.01	61	53	W 3	b	3
Dungeness ...	29.95	61	57	S 1	f	0
London	29.93	71	61	W 2	c	*
Yarmouth ...	29.94	57	55	SE 2	bcf	2
Rochefort ...	30.05	63	51	NW 3	o	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The report for yesterday morning showed that pressure was highest, 30·2 ins: and upwards, in an anticyclone lying to the southwestward of the Iberian Peninsula, but high 30·0 ins: and upwards over Russia. The lowest readings 29·7 ins: and less, were found in a large depression lying to the westward of the United Kingdom, and also in another disturbance lying off the northwest of Norway, while a third but very small disturbance with similar readings was apparently lying near Riga. Over Italy and the neighbouring portions of the Mediterranean there was a large shallow depression with readings below 29·9 ins:. The wind was S'ly in the west and north of our Islands and also in the north of Sweden, and on the west coast of Ireland it blew freshly or strongly. Over the English Channel, however, light breezes from the W'ly were reported, and in France light or moderate breezes from the NW'ly, while in all other localities the wind was very variable. The weather, although fair on the whole varied greatly in different localities, fog was reported on the southeast coast of England, as well as at Donaghadee, rain was falling at Helsingfors, Valencia (Ireland) and Lesbos, and a thunderstorm was in progress at Sanguinaire. Temperature had fallen a little over Western Germany, the central and southern parts of France and the north of Italy, but risen in most other localities; readings ranged from 70° and upwards over Western Russia, the Adriatic, and some parts of the Mediterranean to 55° or less at many of our own western and northern stations, as well as over the northern parts of Scandinavia and Russia. The highest individual readings were 75° at Constantinople, 77° at Cagliari, 75° at Brindisi, 74° at Lesina, 71° at Warsaw, Kiev, and Buda Pesth and 70° at Rome; the lowest were 50° at Archangel, 52° at Haparanda, 53° at Bodö and Stornoway, 54° at Yarmouth, and 55° at Christiansund. Sumburgh Head, Ardrossan, Malin Head, Donaghadee, Pembroke and Lyons.

In the course of the day the depression to the westward of our Islands (a "V" shaped disturbance) advanced directly over our western coasts and occasioned rain at several of the western and northern stations. In its rear the wind shifted to the NW'ly on the Irish coasts.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Saturday, 15th June, 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R.H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29.87	57	W	2	c	29.88	+.13	60	56	- 2	S	2	bc	*	68	50	-
	Hernösand ...	29.88	60	S	2	b	29.89	-.02	59	53	- 2	S	2	b	*	73	55	0.39
	Stockholm ...	29.90	66	SSW	2	b	29.89	-.01	73	63	+ 1	SSE	2	b	*	77	55	-
	Wisby	29.95	64	SW	2	b	29.93	+.01	69	57	+ 7	S	4	b	*	75	55	-
	Bodö	29.87	54	ENE	2	b	29.75	-.11	59	51	+ 9	ENE	4	o	2	?	50	-
	Christiansund...	29.85	57	WSW	1	f	29.74	-.11	60	56	+ 2	E	1	f	1	72	54	-
	Skudesnaes ...	29.91	56	S	6	o	29.87	-.05	55	53	- 2	SSE	6	o	4	61	54	-
	Christiania Fjord (Farder)	29.87	67	WSW	4	b	29.88	-.03	59	59	- 8	WSW	5	m	3	68	?	-
	Skagen (The Skaw)	29.91	64	Z	0	b	29.88	-.02	66	57	+ 2	NW	1	b	0	77	55	-
	Fanö	29.93	60	NW	1	b	29.90	-.05	70	60	+ 4	S	2	b	*	72	54	-
	Dumbarg Head	29.80	54	Z	0	o	29.79	+.04	52	50	+ 1	SW	1	c	1	58	46	0.18
	Stornoway	29.78	53	SW	4	o	29.82	+.04	55	55	+ 1	SW	4	c	4	56	49	0.03
	Wick	29.80	58	W	1	o	29.84	+.04	56	53	- 2	W	3	o	2	64	45	0.05
	Nairn	29.78	57	E	2	c	29.86	+.05	56	52	+ 1	SW	2	bc	1	61	45	0.02
	Aberdeen... ...	29.80	54	E	1	o	29.91	+.07	59	51	+ 5	WSW	1	b	1	59	44	0.01
	Leith ...	29.80	59	W	2	bc	29.93	+.10	59	53	- 1	W	3	bc	*	66	46	-
	Shields	29.82	67	SW	3	c	29.95	+.08	56	52	- 2	W	2	bc	2	68	51	-
	Spurn Head ...	29.89	64	SSW	2	b	29.96	+.03	56	54	- 5	NNE	3	c	3	70	54	-
	York	? 29.85	66	SW	3	o	? 29.93	+.05	59	54	0	NNW	1	bc	*	70	51	-
	Loughborough	29.91	68	WSW	3	bc	29.98	+.02	59	55	0	ENE	1	om	*	70	55	-
	[illegible]rossan ...	29.84	55	SSW	1	o	29.95	+.10	56	55	- 1	SSW	3	c	2	60	51	0.16
	[illegible]main Head ...	29.85	53	SSW	1	o	29.94	+.09	54	54	0	SW	2	op	3	57	51	0.03
	Mullaghmore	29.86	54	SSW	2	r	29.97	+.10	54	53	0	WSW	4	op	3	58	50	0.14
	[illegible]	29.85	55	WSW	4	o	29.99	+.13	56	54	+ 2	W	2	o	*	57	53	-
	[illegible]	29.87	57	WSW	2	r	29.99	+.09	53	56	+ 3	W	2	bc	0	54	51	0.09
	[illegible]	? 29.88	56	SW	3	o	29.96	-.12	54	53	- 1	SW	1	c	*	59	52	0.06
	[illegible]	29.91	56	W	2	o	29.98	+.07	57	54	- 2	WNW	1	c	1	63	52	0.06
	[illegible]	29.91	54	SSW	3	o	29.99	+.09	60	57	+ 6	NNW	1	bc	1	60	51	0.04
	[illegible]	29.91	55	Z	0	r	30.00	+.08	55	52	0	Z	0	o	*	61	47	0.05
	[illegible]	29.91	55	SSW	2	o	30.03	+.09	56	54	+ 2	Z	0	om	1	57	49	0.02
	Roche's Point	29.92	55	WSW	2	o	29.99	+.09	55	52	- 2	WNW	1	bf	2	59	48	0.01
	Pembroke	29.93	55	SSW	1	c	29.99	+.07	53	52	- 2	NW	1	cg	1	58	52	-
	Scilly ...	29.96	57	WSW	2	o	29.97	+.03	56	54	- 2	Z	0	o	4	62	52	0.02
	Prawle Point ...	29.97	56	WSW	3	o	29.98	.00	57	54	+ 3	WSW	2	c	1	58	51	0.01
	Jersey	30.00	64	W	2	c	30.01	+.03	57	54	0	W	3	om	3	65	55	-
	Hurst Castle ...	29.98	57	SW	3	f	29.98	-.05	58	56	+ 2	SW	3	c	2	61	54	-
	Dungeness ...	29.97	59	WSW	5	bc	29.98	-.01	57	56	0	SW	1	op	1	66	55	0.01
	London	29.96	61	WSW	2	o	29.97	-.03	59	56	+ 2	NW	1	o	*	64	55	-
	Oxford	29.96	60	S	2	c	29.97	-.02	57	55	+ 3	S	1	o	*	64	54	-
	Cambridge ...	29.96	65	SW	1	c	29.97	-.01	59	58	- 1	S	1	o	*	69	52	-
	Yarmouth ...	29.92	66	SW	2	b	29.95	.00	59	58	0	W	1	em	2	66	53	-
GERMANY.	Cuxhaven ...	29.90	67	E	2	m	29.90	-.02	67	63	- 1	ESE	2	b	*	73	65	-
	Berlin	29.85	74	NNE	5	bc	29.86	-.06	64	62	- 4	E	2	f	*	82	61	0.28
	Wiesbaden ...	*	*	*	*	*	29.91	+.06	66	62	0	NW	2	bc	*	75	61	0.16
	Munich	29.91	57	SW	3	r	29.99	+.06	53	52	- 4	W	4	f	*	72	52	0.51
FRANCE & NETHERLANDS.	The Helder ...	29.93	64	NNE	1	b	29.94	-.01	61	58	- 3	WNW	1	c	1	73	59	-
	Brussels ...	*	*	*	*	*	29.99	+.04	57	56	- 4	W	1	o	*	76	55	-
	Cape Gris Nez...	?	58	WSW	3	b	?	?	58	56	+ 5	WSW	1	o	0	61	?	-
	Paris	30.02	65	NW	2	b	30.02	-.01	61	59	+ 6	WSW	2	o	*	69	?	-
	Brest	?	59	W	3	o	?	?	57	52	0	S	2	r	2	61	50	-
	Lorient	30.04	58	WNW	4	o	30.03	-.01	57	54	- 2	Z	0	o	2	64	54	-
	Rochefort ...	30.13	65	W	4	c	30.12	-.02	59	59	+ 1	WSW	3	o	2	66	52	0.08
	Belfort	29.89	58	W	1	r	30.00	.	58	57		W	2	r	*	72	56	0.39
	Lyons	? 30.07	59	NW	2	r	30.07	+.08	57	55	- 3	NW	1	o	*	63	56	0.04
	Nice...	29.92	63	SE	1	o	29.90	-.03	64	60	+ 5	NW	2	bc	0	72	54	-
PENINSULA.	Perpignan ...	30.08	72	NW	2	c	30.10	+.01	66	60	+ 4	NW	3	c	*	75	59	-
	Biarritz	30.18	64	W	3	bc	30.15	-.01	60	59	- 1	S	1	o	1	70	57	-
	Corunna	*	*	*	*	*												
	Lisbon	30.23	62	NW	5	bc	30.23	-.02	62	59	+ 1	NNW	3	o	?	70	59	-

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts on p. 3

WEATHER CHARTS

for 8 a.m. on Saturday, 15th June. 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

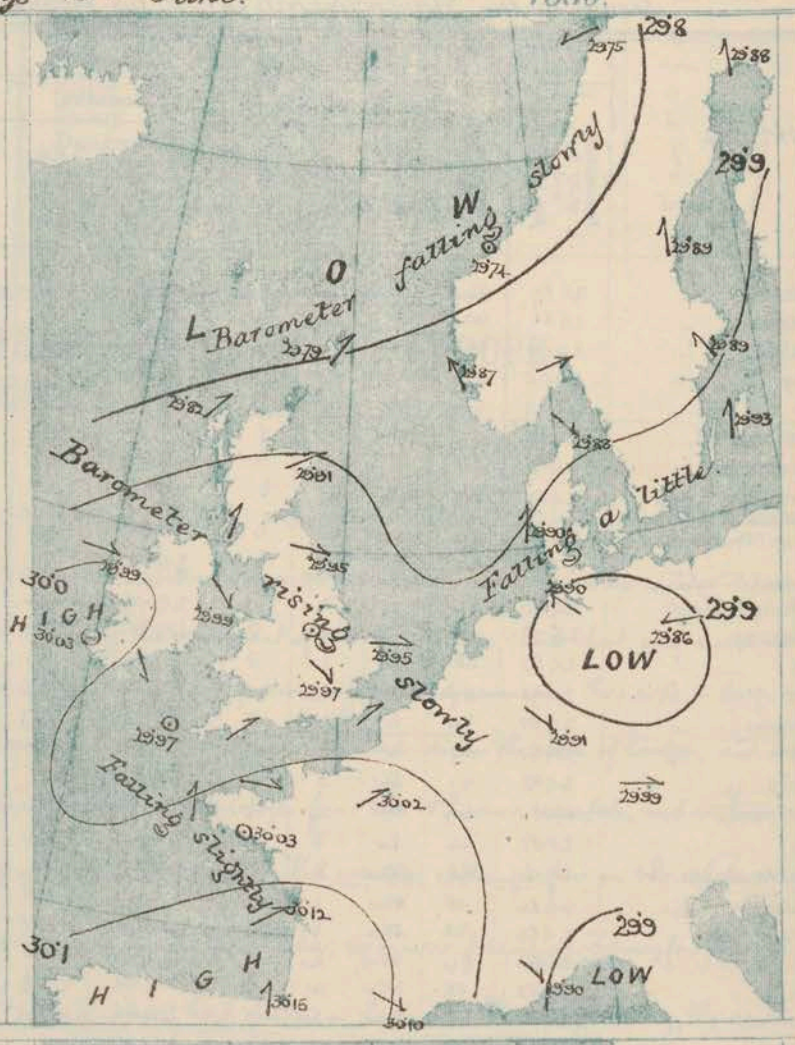
Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —*

⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — *where considerable, is shewn thus.*

= Rough. = High.



MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June During the 15 Years 1871 — 1885.

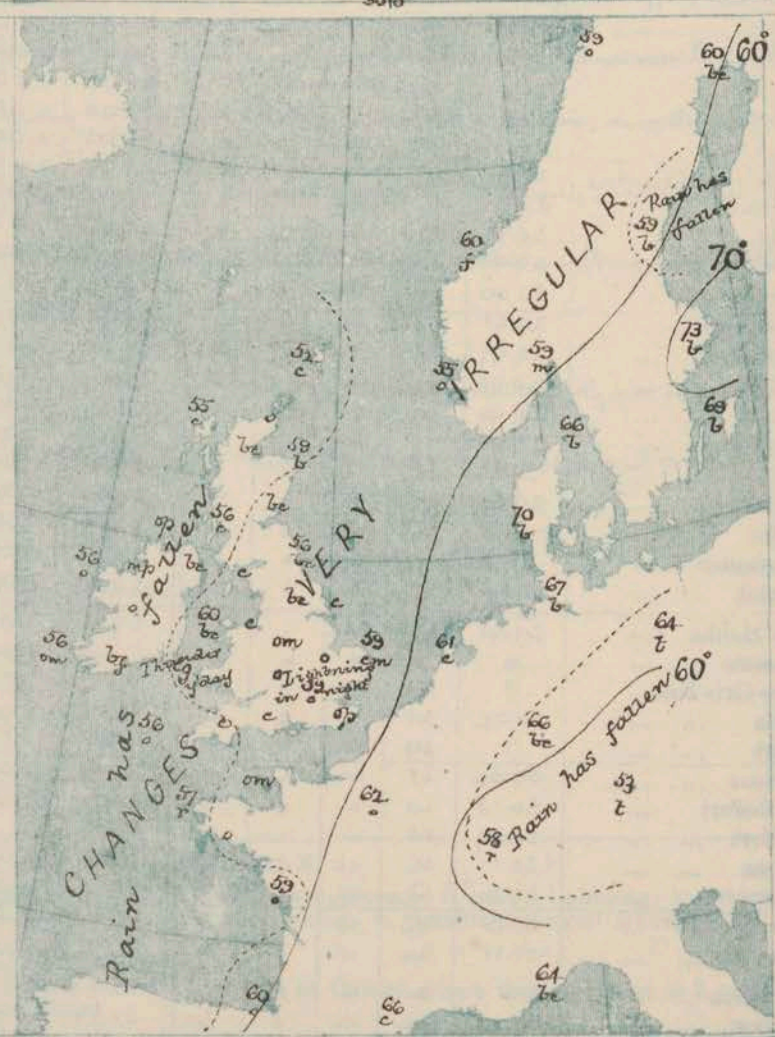
STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963

TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° Changes since previous morning are stated in words*

Weather *is shown by Letters of the Beaufort Scale.*

Rainfall. *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more, are quoted in figures.*



MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June.

STATIONS.	TEMPERATURE. Daily Max	Daily Min.	at 8 a.m. Dry	at 8 a.m. Wet.	RAINFALL. (Inches)
Sumburgh Head	54·3	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85 the Rainfall means are mainly those for the 10 years 1866-85

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·2 ins: and upwards in Portugal; 30·0 ins: and upwards in the west of Ireland.
Lowest, 29·8 ins: and less, in a large area lying to the northward of our Islands and over the west of Norway; 29·3 ins: and less in a depression lying over Germany.
Gradient slight. Barometer rising in our Islands, the Netherlands, Germany, and the north of Scandinavia, but falling elsewhere.

TEMPERATURE — Highest, 73° at Stockholm, 70° at Jassy, 69° at Nistry, 67° at Cuxhaven, and 66° at Perpignan. Skagen and Wiesbaden.
Lowest, 52° at Sumburgh Head, 53° at Pembroke, 54° at Malin Head, Mullaghmore, and Banow in Tunnes, and 55° at Ilfracombe, Stornoway, and Rochelle.
The highest maxima registered over our Islands yesterday were 70° at Spurn Head, York and Houghton and 69° at Cambridge.

WIND — Light from the SW'rd over the northern and extreme southern parts of the United Kingdom as well as in the north of France.
Variable over the more central parts of our Islands; NW'rly in the south of France.
S'rly in Sweden, E'rly over North Germany and the west of Norway.

WEATHER — Fair generally but showery in the north of Ireland as well as at Dungeness, and foggy at Roche's Point.
Thunder is reported at Berlin and Munich.
Showers fell yesterday in many parts of the United Kingdom, thunder occurred at Pembroke and lightning was seen in London.

SEA — Moderate at Stornoway and Scilly, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are no indications of much change, but a very shallow depression which is lying over South Wales may possibly occasion thunder showers at some of the English stations.

FORECASTS

for the 24 hours ending at NOON on 16TH JUNE *1889.*

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	SW'rly and W'rly winds, light; fair generally perhaps some showers.	6 SCOTLAND WEST 7 ENGLAND N.W.	Same as Nos 0 and 1.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	Light variable breezes; cloudy, some showers, thunder locally.	8 ENGLAND S.W	Same as Nos 2 to 5
		9 IRELAND NORTH 10 IRELAND SOUTH	W'rly and NW'rly winds, light; fair generally, but some showers.
		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnes ...	29.93	60	57	S 6	o	4
Sumburgh Head	29.81	57	52	NW 1	bc	2
Stornoway ...	29.78	56	55	SW 4	c	4
Aberdeen ...	29.84	53	52	ENE 1	o	2
Shields	29.85	65	59	SSW 3	c	2
Ardrossan ...	29.85	58	54	SSW 2	c	2
Malin Head ...	29.85	56	52	NNW 1	o	3
Mullaghmore ...	29.86	55	52	NSW 4	or	3
Belmullet ...	29.86	53	50	SW 2	od	*

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Holyhead ...	29.91	57	55	NSW 1	cg	1
Valencia	29.92	56	54	S 4	om	4
Scilly	29.96	59	56	NSW 2	o	3
Jersey	30.02	61	59	W 3	o	3
Dungeness ...	29.98	61	57	NSW 4	bc	3
London	29.98	64	58	SW 2	o	*
Yarmouth ...	29.95	62	59	SE 3	b	2
Rochefort ...	30.15	64	61	NSW 4	o	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The Continental information is not to hand.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 16th JUNE *1889.*

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29·76	58	S	2	b	29·69	− ·19	62	57	+ 2	S	3	b	*	75	48	—
	Hernösand ...	29·69	59	Z	0	c	29·67	− ·22	67	60	+ 8	SSW	2	b	*	75	59	—
	Stockholm ...	29·94	65	S	1	b	29·80	− ·09	73	63	0	S	2	b	*	79	59	—
	Wisby	29·91	64	SSW	2	b	29·86	− ·07	66	58	− 3	NNW	2	b	*	73	54	—
	Bodö	29·71	54	WSW	4	o	29·76	+ ·01	52	51	− 7	Z	0	c	0	68	48	0·12
	Christiansund...	29·81	52	W	1	f	29·76	+ ·02	54	52	− 6	ESE	1	f	0	55	50	0·12
	Skudesnaes ...	29·93	55	WNW	2	c	29·91	+ ·04	55	53	0	SW	4	o	3	61	46	—
	Christiania Fjord (Færder)	29·81	66	SW	5	m	29·79	− ·07	63	55	+ 4	WNW	4	b	2	66	61	—
	Skagen (The Skaw)	29·84	63	W	1	b	29·83	− ·05	63	56	− 3	NW	5	b	4	77	57	—
	Fanö	29·91	61	NW	3	c	29·96	+ ·06	61	55	− 9	NNW	4	b	*	75	55	—
BRITISH ISLANDS.	Sumburgh Head	29·80	52	SW	2	o	29·87	+ ·08	50	50	− 2	W	2	r	2	57	47	0·09
	Stornoway ..	29·94	53	SW	5	r	30·00	+ ·18	54	52	− 1	W	3	o	3	58	50	0·04
	Wick	29·87	52	W	4	o	29·97	+ ·13	57	54	+ 1	NW	5	c	3	62	57	0·01
	Nairn	29·90	58	W	3	b	30·01	+ ·15	58	52	+ 2	SW	2	bc	1	69	54	—
	Aberdeen... ...	29·89	67	WSW	2	b	30·08	+ ·12	60	53	+ 1	W	2	bc	1	68	54	—
	Leith	29·97	59	W	2	b	30·06	+ ·13	61	56	+ 2	W	3	bc	*	67	50	—
	Shields	29·97	58	SSE	2	c	30·06	+ ·11	56	52	0	WNW	3	b	2	61	49	—
	Spurn Head ...	29·99	56	WNW	2	c	30·07	+ ·11	58	56	+ 2	Z	0	bm	0	60	53	—
	York	? 29·96	63	NW	1	o	? 30·05	+ ·12	60	55	+ 1	WNW	1	b	*	69	47	—
	Loughborough	30·00	63	NNW	1	o	30·13	+ ·15	61	57	+ 2	NW	1	bm	*	66	45	—
	Ardrossan ...	30·00	59	WSW	3	bc	30·11	+ ·16	59	54	+ 3	WNW	3	o	2	60	51	—
	Malin Head ...	30·01	55	W	4	o	30·12	+ ·18	53	52	− 1	W	2	od	3	61	52	0·06
	Mullaghmore ...	30·06	56	WNW	4	bc	30·16	+ ·19	54	52	0	W	2	om	2	61	53	—
	Belmullet ...	30·08	56	W	2	o	30·15	+ ·16	54	52	− 2	WSW	1	o	*	59	53	—
	Donaghadee ...	30·02	61	S	3	c	30·15	+ ·16	56	53	− 2	NW	2	c	0	63	55	—
	Barrow-in-Furness	30·01	58	WNW	2	b	30·10	+ ·14	56	53	+ 2	NW	4	b	*	60	52	—
	Liverpool (Bidston)	30·04	56	NW	1	bc	30·13	+ ·15	58	55	+ 1	WNW	2	c	2	60	49	—
	Holyhead ...	30·04	56	NW	1	b	30·14	+ ·15	57	54	− 3	NE	1	bw	1	61	49	—
	Parsonstown ...	30·03	65	NW	1	c	30·13	+ ·13	54	52	− 1	Z	0	c	*	67	44	0·02
	Valencia	30·11	60	WNW	2	c	30·16	+ ·13	57	54	+ 1	Z	0	bm	1	64	47	—
	Roche's Point...	30·07	63	WSW	3	b	30·14	+ ·15	55	51	0	NNW	1	b	2	64	50	—
	Pembroke ...	30·03	59	N	3	b	30·11	+ ·12	61	57	+ 8	NNE	2	b	1	62	49	—
	Scilly	30·03	58	NNW	4	bc	30·08	+ ·11	59	55	+ 3	NNE	4	b	4	61	54	—
	Prawle Point ...	30·00	57	W	2	o	30·06	+ ·08	58	57	+ 1	NE	4	og	2	58	50	0·07
	Jersey	30·01	59	NW	2	omy	30·03	+ ·02	60	55	+ 3	ENE	3	bm	3	65	54	—
	Hurst Castle ...	29·99	57	SW	3	c	30·06	+ ·08	62	60	+ 4	ENE	3	c	1	63	56	0·11
	Dungeness ...	29·97	61	WSW	3	c	30·00	+ ·02	60	56	+ 3	E	4	c	3	65	52	0·02
	London	29·98	63	SW	1	og	30·07	+ ·10	60	55	+ 1	NNE	2	b	*	67	55	0·20
	Oxford	30·00	58	NE	2	r	30·10	+ ·13	60	55	+ 3	NE	1	b	*	66	51	0·02
	Cambridge ...	30·00	60	NE	1	o	30·11	+ ·14	59	55	0	NE	1	b	*	66	47	0·03
	Yarmouth ...	29·98	54	NNE	3	c	30·08	+ ·13	58	55	− 1	NNE	3	b	2	62	53	—
GERMANY.	Cuxhaven ...	?	?	NW	2	?	29·91	+ ·01	64	62	− 3	N	5	c	*	71	63	—
	Berlin	29·80	74	NNE	2	b	29·83	− ·03	66	51	+ 2	NW	3	c	*	79	63	0·28
	Wiesbaden ...	*	*	*	*	*	29·93	+ ·02	63	60	− 3	Z	0	r	*	72	61	0·20
	Munich	29·97	58	SW	4	o	29·96	− ·03	59	57	+ 6	SW	5	o	*	63	54	0·99
FRANCE & NETHERLANDS.	The Helder ...	29·97	60	N	1	b	30·04	+ ·10	59	53	− 2	N	2	b	2	64	57	—
	Brussels 9am	*	*	*	*	*	30·02	+ ·03	57	56	0	NNE	1	m	*	69	54	—
	Cape Gris Nez...	?	60	W	1	o	?	?	56	55	− 2	ENE	4	b	4	64	55	—
	Paris	29·99	66	SW	2	bc	30·00	− ·02	61	59	0	NNW	2	o	*	74	55	—
	Brest	?	58	WNW	4	o	?	?	55	55	− 2	N	3	o	2	61	48	—
	Lorient	29·98	59	SE	3	m	30·01	− ·02	55	53	− 2	N	2	bc	2	61	52	0·12
	Rochefort ...	30·05	61	SW	4	f	29·98	− ·14	58	57	− 1	SW	3	c	2	68	52	0·20
	Belfort	29·99	58	W	1	c	30·00	·00	58	57	0	WSW	2	bc	*	64	55	0·25
	Lyons	30·02	63	E	1	o	29·99	− ·08	60	55	+ 3	NNW	2	b	*	71	52	—
	Nice...	29·90	63	NNW	1	c	29·87	− ·03	66	62	+ 2	SSE	2	c	1	73	59	—
PENINSULA.	Perpignan ...	30·00	73	N	2	c	29·99	− ·11	66	62	0	Z	0	o	*	79	57	—
	Biarritz	30·04	68	NE	3	c	30·04	− ·11	59	54	− 1	W	4	r	2	77	57	0·08
	Corunna	*	*	*	*	*	30·10	− ·12	59	58	− 6	NNE	2	o	4	86	55	0·04
	Lisbon	30·16	64	WNW	4	o	30·06	− ·17	64	62	+ 2	N	3	o	?	72	61	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Sunday, 16th June, 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevailed winds. They fly with the wind and their barbs and feathers refer to force thus —

⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — where considerable, is shewn thus.

= Rough = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·862
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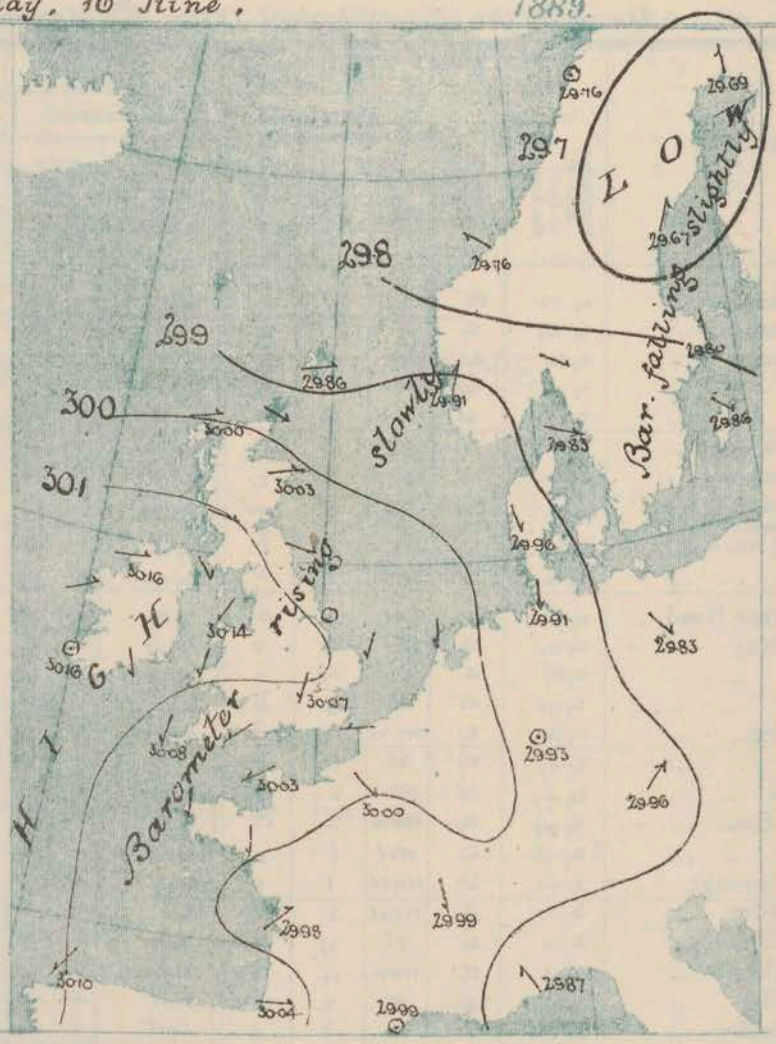
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June.

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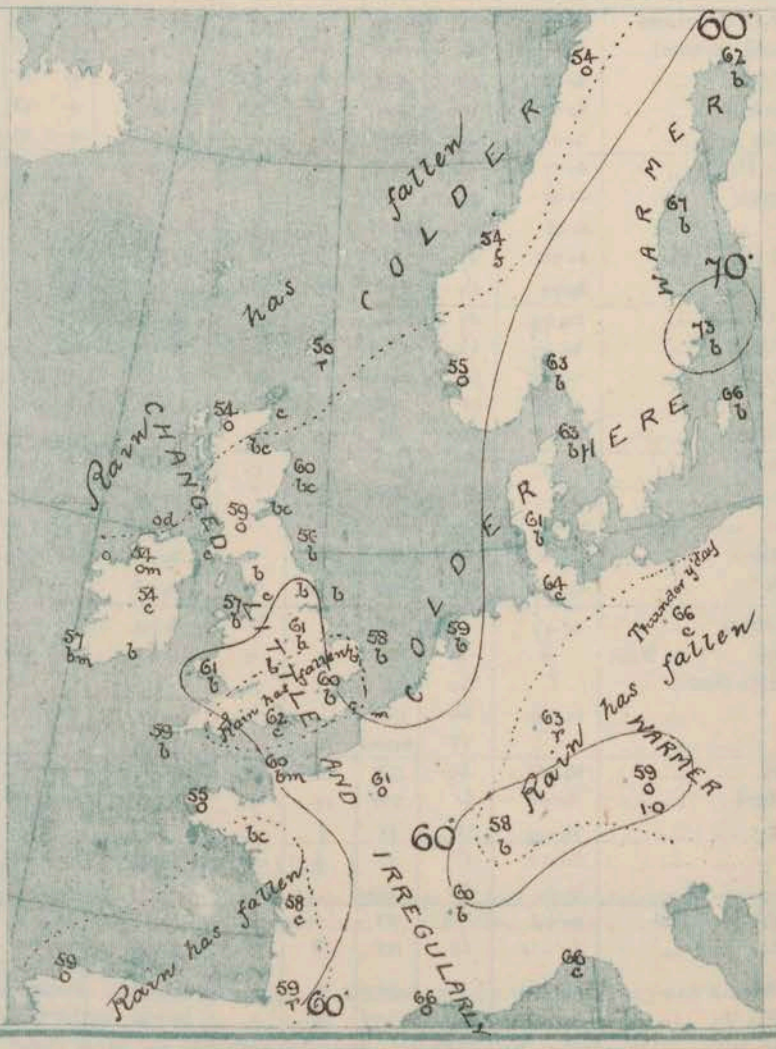
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	39·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	63·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85 the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·1 ins: and upwards in an anticyclone extending from the northwest of Spain to Ireland, Wales, and the central and northwestern part of England.
Lowest, 29·7 ins: and less, in a large shallow depression lying over the north of Sweden.
Gradients slight. Barometer rising at all but the Scandinavian and Southern French stations.

TEMPERATURE — Highest, 75° at Stockholm, 67° at Hernösand, 66° at Wisby, Berlin, Nice, and Perpignan, and 64° at Cuxhaven and Brixton.
Lowest, 50° at Sumburgh Head, 53° at Malin Head, and 54° at Bodö, Christiansund, Belmullet, Mullaghmore, and Valentia.
The highest maxima recorded over our Islands yesterday were 69° at York, and 68° at Aberdeen, but at the Scottish stations the thermometer rose to between 73° and 79°.

WIND — Light or moderate from the W.ward or NW.ward on our northern coasts, and from NW. or N. in Denmark.
Moderate from E. or NE. in the south of England; variable or NW. over France.
Light from the S.ward in Sweden and from SW. in South Germany.

WEATHER — Fine over the greater part of our Islands as well as in Sweden, Denmark, and the Netherlands.
Cloudy in most other localities, with rain at Sumburgh Head, Wiesbaden, and Biarritz.
Since yesterday morning rain has fallen at most of our southern stations as well as in the extreme north of Scotland. In London the fall was much heavier in some localities than other.

SEA — Slight or smooth generally.

* At Brixton the amount measured was 0·20 in: at Westminster 0·40 in:.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

for the 24 hours ending at NOON on 17th JUNE 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	None issued	6 SCOTLAND WEST	None issued
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North Cone* is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South Cone* is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesnaes ...	29.88	60	54	SW	2	bc	2
Sumburgh Head	29.83	56	51	SW	2	bc	2
Stornoway ...	29.83	56	55	SW	4	o	4
Aberdeen ...	29.92	61	55	SSE	2	b	2
Shields	29.98	57	53	E	1	c	1
Ardrossan ...	29.98	59	54	SSE	2	b	1
Malin Head ...	29.99	60	58	W	3	b	3
Mullaghmore ...	30.03	59	54	W	2	bv	2
Belmullet ...	30.07	58	53	W	2	b	*

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Holyhead ...	30.04	58	56	NNW	1	c	1
Valencia	30.09	63	59	NW	2	bm	2
Scilly	30.01	60	56	NNE	3	c	4
Jersey	30.02	64	56	SW	3	bc	3
Dungeness ...	30.00	60	59	WSW	3	c	2
London	29.97	66	59	W	2	o	*
Yarmouth ...	29.97	61	58	NNE	3	bc	2
Rochefort ...	30.10	67	64	WNW	4	c	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure varied from between 30·0 ins: and 30·2 ins: over Spain, France, the Bay of Biscay and west of Ireland and from 29·3 ins: and more over the Baltic and Finland, to 29·8 ins: in a large low pressure area lying off the west of Norway and in a smaller system lying over European Turkey and in a third lying over the Riviera. There was also a small and very shallow depression lying over the Bristol Channel. The wind was SW and W over the northern parts of our Islands, as well as over France, SE to E in Norway and S over the Baltic and Gulf of Bothnia; NW to W over the Mediterranean and South Germany, very variable elsewhere. Weather was fine and bright over Northern Europe and on the southern shores of the Baltic, cloudy more or less elsewhere, in some places gloomy, and in several localities rainy, at Munich and Berlin thunderstorms were in progress. Temperature was low as a whole, but the morning values exceeded 70° over some of the extreme southern and southeastern countries, and on the Bosphorus the value exceeded 80°. The highest values were 81° at Constantinople, 75° at Brindisi and Cagliari, 73° at Lesina and at Stockholm (?) 72° at Barcelona; 71° at La Calle, and Nicolaiff, 70° at Algiers, Odessa, Memel, and Jassy, 68° at Kharkov and Warsaw; the lowest was 51° at Archangel, 52° at Sumburgh Head, 53° at Pembroke, 54° at Malin Head and Mullaghmore, 55° at Skudesnaes and Roches Point, 57° at Prawle Point. In London the reading was 59°, and Paris 62°, at Berlin 64°.

During the day a little rain fell in the extreme north of our Islands, a larger amount locally in the south and southeast of England and also at many of the German and French stations. Thunder occurred at Berlin.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Monday 17th June. *1889.*

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	?	54	S	2	bc	29.73	+ .04	58	56	— 4	N	4	o	*	72	54	—
	Hernösand ...	29.71	63	SSW	2	c	29.82	+ .15	59	52	— 8	N	4	bc	*	75	54	—
	Stockholm ...	29.41	69	Z	o	o	29.71	— .09	59	53	— 14	N	6	o	*	79	57	—
	Wisby														*			
	Bodö	29.79	51	NW	2	o	29.97	+ .21	57	49	— 1	NNE	2	o	1	54	46	—
	Christiansund...	29.91	52	W	5	r	30.11	+ .35	54	51	0	WNW	3	c	2	55	48	—
	Skudesnaes ...	30.02	55	NNW	5	o	30.12	+ .21	57	51	+ 2	NNW	6	b	3	59	50	—
	Christiania Fjord (Farder)	29.73	68	WNW	6	b	29.93	+ .14	59	50	— 4	N	7	b	3	68	59	—
	Skagen (The Scaw)	29.80	60	WNW	4	b	29.89	+ .06	60	53	— 3	NNE	5	b	4	66	59	—
	Fanö	30.00	58	NW	4	c	30.03	+ .07	59	52	— 4	NW	6	c	*	66	55	—
BRITISH ISLANDS.	Sumburgh Head	30.04	54	W	2	c	30.17	+ .30	54	52	+ 4	Z	0	o	0	57	42	0.01
	Stornoway ..	30.11	57	W	2	o	30.15	+ .15	54	52	0	SW	4	o	4	58	49	0.03
	Wick	30.10	56	NW	3	o	30.19	+ .22	57	53	0	S	1	o	1	59	51	—
	Nairn	30.09	65	W	1	b	30.17	+ .16	59	54	— 1	W	1	bc	1	67	54	—
	Aberdeen... ...	30.12	56	E	1	c	30.21	+ .18	55	52	— 5	ESE	1	o	1	64	47	—
	Leith	30.11	60	W	2	b	30.19	+ .13	61	55	0	W	1	bm	*	70	48	—
	Shields	30.11	57	E	2	b	30.19	+ .13	58	54	+ 2	SSW	2	m	2	63	50	—
	Spurn Head ...	30.11	56	NE	3	b	? 30.21	+ .14	57	54	— 1	NE	3	b	2	63	50	—
	York	30.06	65	E	2	b	? 30.19	+ .14	59	56	— 1	Z	0	c	*	74	50	—
	Loughborough	30.10	70	NW	2	c	30.22	+ .09	61	56	0	NE	1	bm	*	76	47	—
	Ardrossan ...	30.14	60	WNW	3	c	30.20	+ .09	56	53	— 3	SW	1	b	0	63	49	—
	Malin Head ...	30.16	55	ENE	1	o	30.19	+ .07	55	54	+ 2	SW	1	o	0	59	51	—
	Mullaghmore ...	30.16	59	NW	1	b	30.21	+ .05	59	54	+ 3	W	1	o	2	59	52	—
	Belmullet ...	30.16	58	W	2	b	30.21	+ .06	57	54	+ 3	S	1	c	*	60	52	—
	Donaghadee ...	30.18	58	NNE	3	bc	30.24	+ .09	59	56	+ 3	NE	3	m	1	61	55	0.01
	Barrow-in-Furness	30.11	59	NW	4	b	30.19	+ .09	56	54	0	SE	3	o	*	60	52	—
	Liverpool (Bidston)	30.16	58	NW	2	b	30.22	+ .09	60	55	+ 2	SSW	1	b	2	62	51	—
	Holyhead ...	30.17	56	NNE	1	bc	30.21	+ .07	59	55	+ 2	NNE	1	bc	1	60	49	—
	Parsonstown ...	30.13	69	Z	o	c	30.23	+ .10	58	54	+ 4	Z	o	b	*	70	48	—
	Valencia	30.17	60	WSW	1	b	30.23	+ .07	59	55	+ 2	Z	o	bm	1	63	50	—
	Roche's Point...	30.18	61	ESE	1	b	30.22	+ .08	55	52	0	N	1	b	2	65	50	—
	Pembroke ...	30.13	61	N	3	b	30.20	+ .09	61	58	0	S	1	b	0	65	51	—
	Scilly	30.11	60	NNE	4	o	30.14	+ .06	59	56	0	NNE	4	b	3	61	54	—
	Prawle Point ...	30.09	64	ESE	1	b	30.16	+ .10	64	57	+ 6	ENE	4	b	3	68	52	—
	Jersey	30.04	65	NE	3	bc	30.10	+ .07	61	50	+ 1	NE	5	bm	4	65	55	—
	Hurst Castle ...	30.08	63	SSW	2	bm	30.18	+ .12	64	60	+ 2	NE	2	bmw	0	68	51	—
	Dungeness ...	30.08	61	E	5	bc	30.15	+ .15	61	57	+ 1	NE	4	bc	3	66	51	—
	London	30.07	60	E	2	b	30.18	+ .11	61	55	+ 1	Z	o	bm	1	72	54	—
	Oxford	30.12	68	NE	1	b	30.21	+ .11	54	53	— 6	N	1	bw	*	72	51	—
	Cambridge ...	30.14	68	W	1	bc	30.23	+ .12	53	52	— 6	NE	1	bm	*	72	48	—
	Yarmouth ...	30.11	63	NNE	2	b	30.24	+ .13	57	54	— 1	NE	3	bw	2	65	54	—
GERMANY.	Cuxhaven ...	30.00	59	N	5	c	30.06	+ .15	59	56	— 5	N	5	c	*	64	58	—
	Berlin	29.86	70	NNE	3	c	29.96	+ .13	64	58	— 2	N	4	c	*	75	59	0.08
	Wiesbaden ...	*	*	*	*	*	30.04	+ .11	63	57	0	NE	2	c	*	72	61	0.08
	Munich	29.94	60	SW	3	bc	30.00	+ .04	58	57	— 1	W	4	o	*	70	55	0.04
FRANCE & NETHERLANDS.	The Helder ...	30.07	59	NNW	1	b	30.15	+ .11	60	55	+ 1	NNE	2	bc	3	64	57	—
	Brussels	*	*	*	*	*	30.13	?	55	?	— 2	NE	3	c	*	72	52	—
	Cape Gris Nez ..	?	56	ENE	4	b	?	?	58	56	+ 2	ENE	4	b	3	63	52	—
	Paris	29.98	68	NNE	2	r	30.08	+ .08	62	58	+ 1	NE	3	b	*	76	56	—
	Brest	30.10	62	ENE	3	b	?	?	57	?	+ 2	E	6	b	2	64	48	—
	Lorient	29.99	65	NE	4	bc	30.03	+ .02	60	58	+ 5	NE	5	c	4	68	54	—
	Rochefort ...	29.97	64	WNW	4	o	30.02	+ .04	61	61	+ 3	SE	3	c	2	68	54	—
	Belfort	29.97	59	N	1	o	29.99	— .01	60	57	+ 2	N	1	o	*	64	55	0.08
	Lyons	29.93	68	NNW	1	b	29.97	— .02	63	57	+ 3	N	1	b	*	73	57	—
	Nice...	29.85	66	WSW	3	o	29.89	+ .02	66	63	0	Z	o	o	2	75	61	—
	Perpignan ...	29.94	66	S	1	o	29.95	— .04	68	63	+ 2	NW	2	c	*	79	60	0.04
	Biarritz	30.00	62	WNW	4	c	29.99	— .05	61	57	+ 2	W	3	o	2	66	57	0.04
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	29.97	63	WNW	5	b	29.93	— .13	59	55	— 5	NW	4	c	2	75	57	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 8*

WEATHER CHARTS

for 8 a.m. on Monday, 17th June, 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words*

Wind — *Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —*

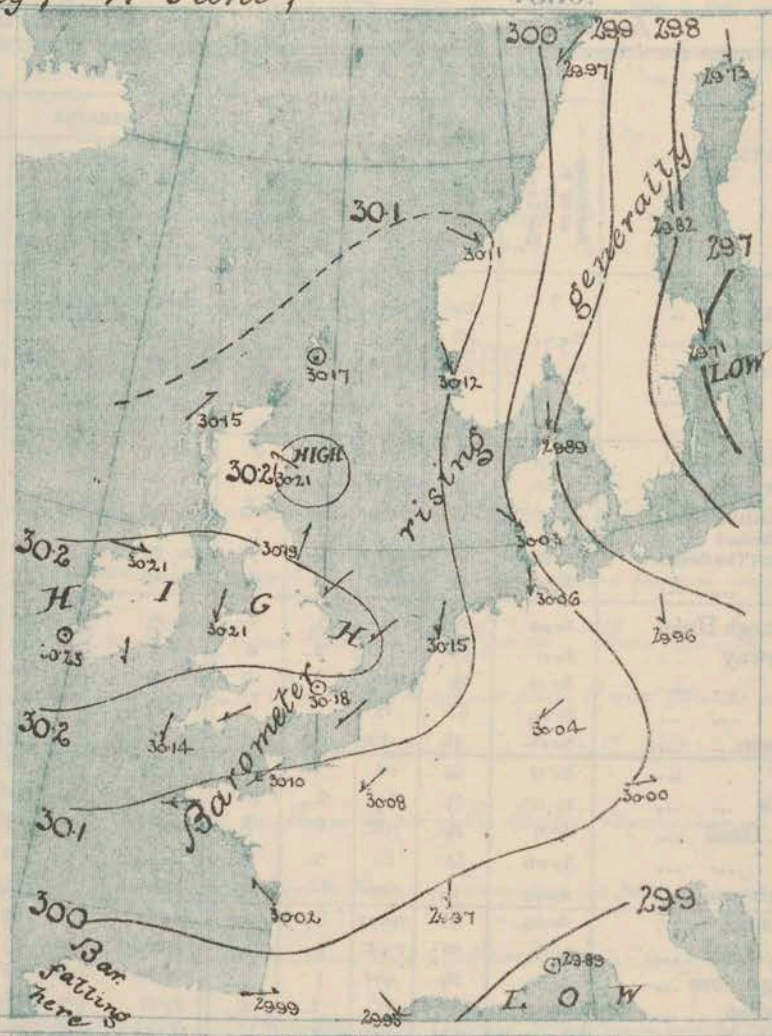
⟶ = forces above 10, ⟶ = forces 8 to 10;
⟶ = forces 5 to 7, ⟶ = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — *where considerable is shewn thus.*
= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. in.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·940
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° Changes since previous morning are stated in words*

Weather *is shown by Letters of the Beaufort Scale.*

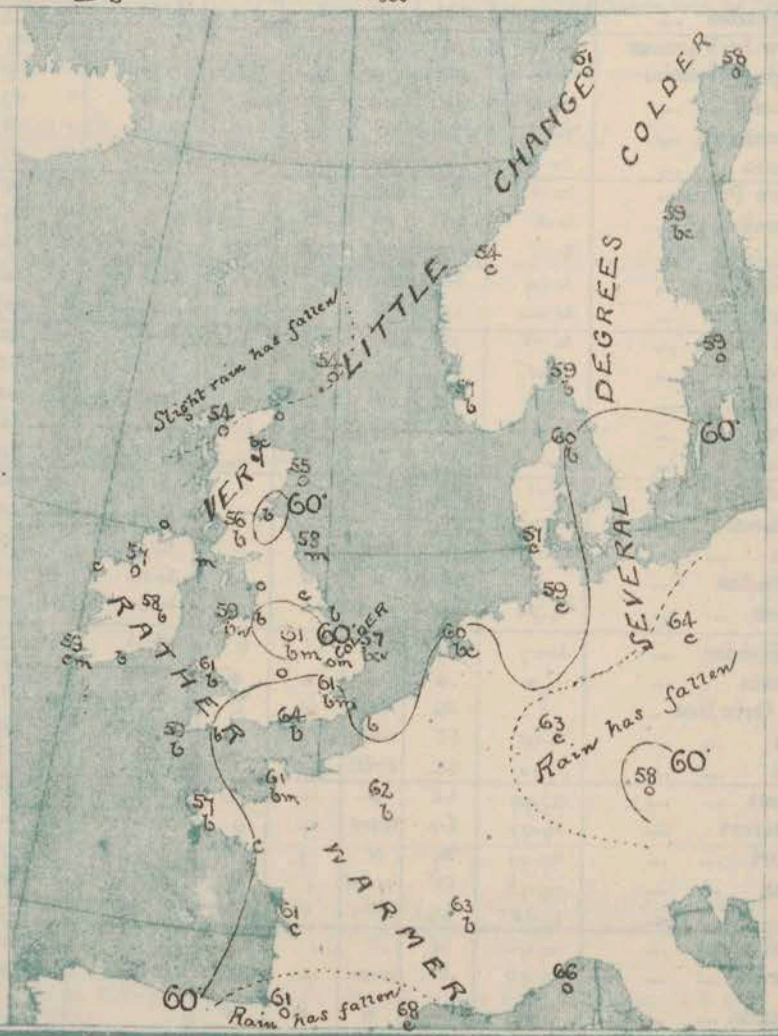
Rainfall. *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more, are quoted in figures.*

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June

STATIONS.	TEMPERATURE. Daily Max.	Daily Min	at 8 a.m. Dry	at 8 a.m. Wet	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE – The Temperature means are for the 15 years 1871–85, the Rainfall means are mainly those for the 20 years 1866–85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·2 ins. and more over Ireland and the northern half of England.
Lowest 29·8 ins. to 29·4 ins. and less over Sweden and the Baltic – 29·9 ins and less in the southwest of France, and 30·0 ins and less over Spain.
Gradients moderate over Scandinavia, Denmark and the Baltic, slight elsewhere.
Barometer rising slowly in most places, falling in Spain and the southwest and south of France.

TEMPERATURE — Highest 68° at Perpignan, 66° at Nice, 64° at Berlin, Hurst Castle & Thorpe Ness 62° in London, 60° at Lorient, the Helder & the Scilly 59°.
Lowest 51° at Bodö, 53° at Cambridge, 54° at Christiansund, Lemberg & Stornoway, 57° at Valentia & Spern Head.
The daily maxima recorded at our inland stations varied from 70° to 76° yesterday.

WIND — Light and variable from the South Westward in Scotland, fresh to strong from the Northward on the eastern shores of the North Sea; light to moderate from North East over France, the Channel and Bay of Biscay, calm over Ireland and the north of England.

WEATHER — Fine and dry generally, but cloudy over some parts of the Continent, and on some of our North Western coasts. Very slight rain has fallen in the far north, and in Germany and the south of France.

SEA — Very little disturbed.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Some freshening of the North Easterly breeze in the south is probable, but beyond this very little change is indicated.

FORECASTS

for the 24 hours ending at NOON on 18th JUNE 1889.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Variable light breezes; fair as a whole
1 SCOTLAND EAST	
2 ENGLAND N.E.	NE. breezes, light; fine, warm in day, cool at night, hazy.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	SW. breezes, light and variable; fine
7 ENGLAND N. W.	
8 ENGLAND S. W	Same as Nos 2 to 5
9 IRELAND NORTH	Variable airs and calms; fine, hazy or foggy locally.
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesnaes ...	29.98	57	53	W	6	r	4
Sumburgh Head							
Stornoway ...	30.06	56	54	W	2	o	3
Aberdeen ...							
Shields							
Ardrossan ...							
Malin Head ...	30.16	57	55	WSW	1	o	2
Mullaghmore ...							
Belmullet ...	30.18	57	54	SSW	1	o	*

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Holyhead ...	30.17	58	55	NNW	1	b	1
Valencia							
Scilly							
Jersey	30.04	64	60	NE	3	c	3
Dungeness ...	30.08	63	56	E	6	bc	5 *
London							
Yarmouth ...							
Rochefort ...	29.97	67	64	WNW	4	c	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure varied from 30.1 ins. and more, in the west and northwest of the British Islands, and in Portugal, and from 29.9 ins. and more, over the north of Russia to 29.7 ins. and less over the north of Sweden, and to the same value over the Black Sea. Some local disturbances which were found over the south of our Islands on Saturday evening had dispersed. The wind was W.ly over the northern parts of our Islands, NW.ly to N.ly on the eastern shores of the North Sea, NE.ly in the Channel, and N.ly over the Bay of Biscay. In Ireland and Wales it was very light and variable, as well as over the major part of the continent. Temperature was low over the British Islands and northwestern Europe generally, higher over Russia, central and southeastern Europe, and on the shores of the Baltic, but was not high for the time of year anywhere. The highest morning values recorded were 76° at Cagliari, 75° at Trieste, ? 73° at Stockholm, 72° at Algiers, Sanguinaire, Warsaw, Memel and Riga, 71° at Malta and Palermo, and 70° at Oran, Barcelona and Odessa. The lowest were 48° at Archangel, 50° at Sumburgh Head, 53° at Malin Head, 54° at Bodö, Christiansund, Stornoway, Belmullet and Parsonstown, and 56° at Barrow in Furness.

Later on the high pressure area over our Islands became much more extensive, fine weather prevailed over the United Kingdom, and at our inland stations temperature rose to between 70° and 76° during the afternoon.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 9TH TO THE 15TH JUNE 1889.

At the commencement of this period cold wet weather prevailed over the more eastern and southern parts of the United Kingdom, but fair weather in the west and north. A gradual but decided improvement afterwards took place in the former localities, but towards the end of the week showery conditions spread over us from the west, and thunderstorms occurred at some of the English stations.

During the first two days barometrical pressure was highest, to the west of our Islands, and lowest, in a long band or trough which extended southwestward from the Scandinavian Peninsula to the Netherlands, the southeast of England and the north of France. The prevailing winds over our Islands were therefore NE.ly and while fair weather prevailed over the greater part of Ireland and Scotland, heavy rains were experienced over our Midland, eastern and southeastern counties.

On Tuesday the low-pressure band gradually filled up and during the remainder of the week some shallow depressions advanced over our Islands in a northeasterly or easterly direction. The wind consequently backed to the W.ward or SW.ward, and showery weather extended slowly from our western district to nearly all parts of the Kingdom. On the 12th and 13th a great deal of fog was experienced on the southeast coast of England, and on the 14th a similar phenomenon was reported at the mouths of the Bristol and English Channels.

Temperature was very low at first, the maximum readings over England on the 10th being very little above 50°. A gradual rise of the thermometer then took place, and at the close of the week the day readings differed little from the average.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Tuesday 18th June *1889.*

Issued by the Meteorological Office, 63 Victoria Street, London. **R. H. SCOTT,** *Secretary.*

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29.93	53	N	6	o	30.10	+ .37	50	49	− 8	N	6	o	*	59	52	—
	Hernösand ...	29.94	60	NE	2	c	29.99	+ .17	58	51	− 1	NE	6	o	*	70	54	—
	Stockholm ...	29.82	55	NNE	6	o	29.87	+ .16	55	49	− 4	N	8	o	*	68	52	—
	Wisby														*			
	Bodö	30.16	50	L	o	b	30.23	+ .26	54	48	+ 3	S	2	bc	1	?	46	—
	Christiansund...	30.19	55	NNE	2	b	30.24	+ .13	54	50	0	S	1	b	1	55	48	—
	Skudesnaes ...	30.17	54	NW	8	b	30.19	+ .07	57	52	0	NNW	8	bc	4	59	50	—
	Christiania Fjord (Farder)	30.02	67	N	5	b	30.12	+ .19	58	49	− 1	N	6	b	2	67	55	—
	Skagen (The Scaw)	29.99	60	NNW	3	b	30.08	+ .19	59	54	− 1	NNE	2	b	1	68	59	—
	Fanö	30.12	53	NW	4	b	30.15	+ .12	61	56	+ 4	NW	4	b	*	64	50	—
BRITISH ISLANDS.	Sumburgh Head	30.23	54	W	2	o	30.27	+ .10	55	51	+ 1	L	o	o	0	59	50	—
	Stornoway ..	30.21	56	SW	2	o	30.25	+ .10	55	53	+ 1	SW	2	o	2	58	51	—
	Wick	30.25	58	L	o	b	30.27	+ .08	57	55	0	S	2	bc	1	62	50	—
	Nairn	30.20	63	WNW	2	b	30.25	+ .08	54	54	− 3	L	o	m	1	68	54	—
	Aberdeen... ...	30.25	55	E	1	b	30.29	+ .08	56	54	+ 1	SE	2	c	1	59	50	—
	Leith	30.18	62	NE	1	b	30.27	+ .08	56	55	− 5	E	1	om	*	72	49	—
	Shields	30.19	59	SE	2	bc	30.24	+ .05	58	55	0	E	2	bm	2	65	50	—
	Spurn Head ...	30.23	57	E	3	b	30.26	+ .05	57	55	0	E	2	c	2	59	53	—
	York	30.22	68	SSE	2	b	30.26	+ .07	59	56	0	SE	1	c	*	72	51	—
	Loughborough	30.22	69	E	2	b	30.27	+ .05	59	55	− 2	L	o	cw	*	74	48	—
	Ardrossan ...	30.21	63	SW	2	b	30.25	+ .05	60	57	+ 4	ENE	1	bm	1	64	51	—
	Malin Head ...	30.24	56	NE	1	c	30.26	+ .07	57	57	+ 2	SE	2	of	1	60	55	—
	Mullaghmore ...	30.25	62	NW	2	b	30.26	+ .05	60	57	+ 3	E	1	bm	1	62	50	—
	Belmullet ...	30.26	57	WNW	2	o	30.25	+ .04	60	57	+ 3	ENE	1	b	*	60	52	—
	Donaghadee ...	30.25	61	NNE	2	b	30.27	+ .03	57	54	− 2	NNE	5	b	3	64	55	—
	Barrow-in-Furness	30.19	65	NNW	3	b	30.22	+ .03	58	57	+ 2	NE	1	b	*	66	55	—
	Liverpool (Bidston)	30.23	61	NW	1	b	30.24	+ .02	64	59	+ 4	SE	1	bm	2	69	53	—
	Holyhead ...	30.23	56	NNW	1	b	30.24	+ .03	62	58	+ 3	NW	1	bw	1	62	51	—
	Parsonstown ...	30.21	72	NW	1	b	30.24	+ .01	61	57	+ 3	L	o	bc	*	73	49	—
	Valencia	30.23	65	L	o	bm	30.22	− .01	60	58	+ 1	L	o	bm	0	68	51	—
	Roche's Point...	30.23	63	ESE	1	b	30.22	.00	63	58	+ 8	E	3	b	3	65	55	—
	Pembroke ...	30.19	65	NNW	1	b	30.22	+ .02	60	58	− 1	S	1	m	0	67	55	—
	Scilly	30.16	63	ENE	2	bm	30.16	+ .02	60	56	+ 1	ENE	4	b	?	67	?	—
	Prawle Point ...	30.18	60	ESE	3	b	30.18	+ .02	58	54	− 6	ENE	5	b	4	68	52	—
	Jersey	30.13	65	NE	5	bm	30.14	+ .04	58	55	− 3	ENE	5	om	4	71	54	—
	Hurst Castle ...	30.18	65	SSW	3	bm	30.21	+ .03	60	56	− 4	E	4	bc	2	70	54	—
	Dungeness ...	30.16	61	NE	5	b	30.17	+ .02	60	54	− 1	ENE	5	c	4	66	55	—
	London	30.21	65	NE	2	b	30.24	+ .06	57	53	− 4	ENE	3	o	*	68	50	—
	Oxford	30.22	62	ENE	2	b	30.25	+ .04	59	53	+ 5	E	3	b	*	70	48	—
	Cambridge ...	30.22	64	E	1	bc	30.26	+ .03	56	54	+ 3	E	1	o	*	68	47	—
GERMANY.	Yarmouth ...	30.24	60	NE	2	b	30.24	+ .03	56	53	− 1	NE	3	bc	3	62	54	—
	Cuxhaven ...	30.08	61	N	5	b	30.16	+ .10	62	59	+ 3	N	3	b	*	63	59	—
	Berlin	30.01	66	NW	3	b	30.09	+ .13	63	57	− 1	NW	4	b	*	73	54	—
	Wiesbaden ...	*	*	*	*	*	30.13	+ .09	60	54	− 3	N	2	b	*	72	54	—
	Munich	30.05	59	N	1	o	30.12	+ .12	58	56	0	NE	4	o	*	63	54	0.28
FRANCE & NETHERLANDS.	The Helder ...	30.19	58	NNE	2	c	30.22	+ .07	57	51	− 3	NNE	2	c	2	61	55	—
	Brussels .. ...9 am.	*	*	*	*	*	30.19	+ .06	57	52	+ 2	E	1	b	*	66	49	—
	Cape Gris Nez...	?	58	NE	5	b	?	?	55	53	− 3	ENE	3	c	3	63	52	—
	Paris	30.08	70	NE	3	b	30.10	+ .02	58	54	− 4	NE	3	b	*	75	53	—
	Brest	?	68	E	4	b	?	?	58	54	+ 1	ENE	4	o	3	75	50	—
	Lorient	30.03	68	NE	3	b	30.05	+ .02	58	56	− 2	ENE	4	b	3	73	57	0.04
	Rochefort ...	30.01	65	NW	3	b	29.98	− .04	62	60	+ 1	NE	4	c	2	70	54	0.08
	Belfort	29.98	61	NE	1	b	30.10	+ .11	60	58	0	SE	1	o	*	65	57	—
	Lyons	29.92	68	N	2	c	29.99	+ .02	64	61	+ 1	W	1	c	*	75	58	—
	Nice...	29.88	67	SW	1	c	29.96	+ .07	67	62	+ 1	NNE	3	b	0	75	61	—
PENINSULA.	Perpignan ...	29.91	70	W	1	b	29.95	.00	68	64	0	NW	1	b	*	80	57	—
	Biarritz	? 29.96	66	NE	3	c	? 29.92	− .07	63	61	+ 2	SE	2	c	2	68	59	—
	Corunna	*	*	*	*	*												
	Lisbon	29.88	63	WNW	4	b	29.89	− .04	61	58	+ 2	SW	3	o	2	70	59	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Tuesday, 18th June 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to forces thus —*

⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4;
⊙ = dead calm.

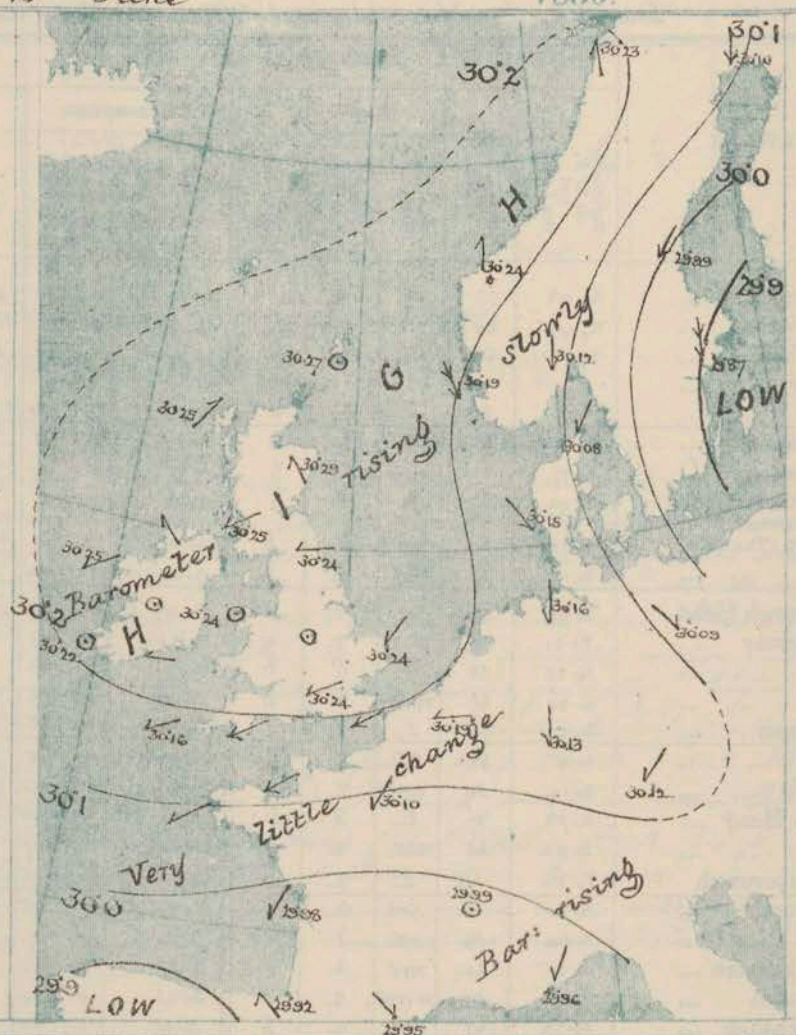
Sea Disturbance — *where considerable is shewn thus.*

= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. in.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M.,

with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° Changes since previous morning are stated in words.*

Weather is shown by Letters of the Beaufort Scale.

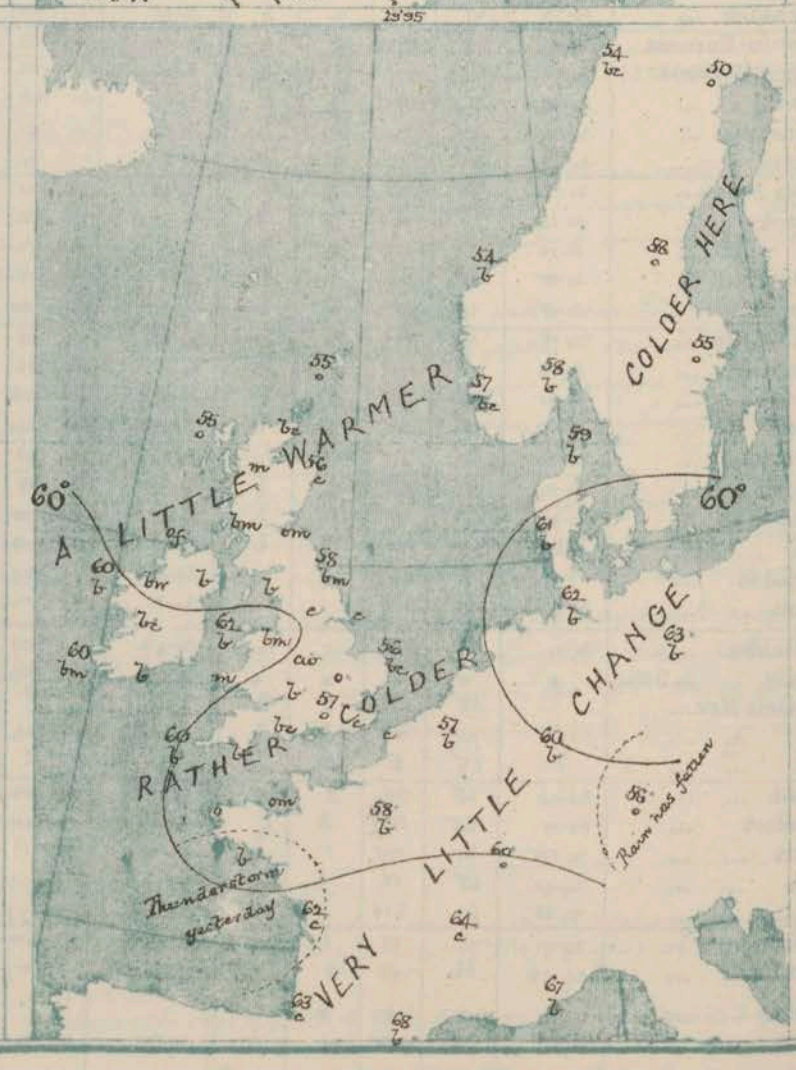
Rainfall A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches.)
Sumburgh Head	54·3	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	63·2	51·4	56·9	54·1	2·02

NOTE – The Temperature means are for the 15 years 1871–85, the Rainfall means are mainly those for the 20 years 1866–85



GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·2 ins. to 30·3 ins. over the British Islands and Norway - 30·4 ins. and more, over the Netherlands and N.W. of Germany.
Lowest 29·9 ins. and less, over Spain, and also over the Baltic.
Gradients moderate for N.ly winds over Sweden and the Baltic - slight for E.ly winds over France and the Bay of Biscay.
Barometer rising steadily in the far North, falling slightly in the extreme South.

TEMPERATURE

Highest 68° at Perpignan, 67° at Nice, 64° at Lyons, 63° at Biarritz, Berlin and Roche's Point, and 62° at Holyhead.
Lowest 50° at Haparanda, 54° at Boden; Christiansund and Vardo, 55° at Aumburgh Head and Stornoway, 56° at Cambridge.
It has fallen slightly in the south, risen in Ireland. Daily maxima at our inland stations ranged from 68° to 74°.

WIND

Very light and variable over the greater part of the British Islands and France.
N.ly in Sweden and the south of Norway, strong to a gale in places.
E.N.E.ly fresh in the Channel and extreme south of England, moderate over the Bay of Biscay.
S.E.ly at Biarritz, S.W.ly over Spain.

WEATHER

Overcast in Sweden, in some parts of the southeast of England, and on our extreme northwest coasts.
Fine and bright in other regions - dry generally - and hazy in a few places.
Rain fell yesterday in Bavaria, and thunderstorms occurred in the west of France.

SEA

Moderate in the Channel. Very smooth in the northwest and north, slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change.

FORECASTS

for the 24 hours ending at NOON on 19th June. 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	S.ly and variable airs; fine, hazy.	6 SCOTLAND WEST 7 ENGLAND N.W.	S.E.ly and S.ly winds, light; fair.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	N.E.ly breezes, light to moderate; fair dry, cool at night.	8 ENGLAND S.W.	Same as No. 3 to 5.
		9 IRELAND NORTH 10 IRELAND SOUTH	E.ly and S.E.ly breezes, light; fine.
		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesnaes ...	30·13	59	52	NW	8	b	4
Sumburgh Head	30·21	58	53	W	2	b	1
Stornoway ...	30·20	54	54	SW	3	o	3
Aberdeen ...	30·23	53	51	E	2	f	1
Shields	30·19	63	58	ESE	3	b	2
Ardrossan ...	30·22	63	59	SW	2	b	1
Malin Head ...	30·23	60	56	NNW	2	b	1
Mullaghmore ...	30·24	59	55	NW	2	b	2
Belmullet ...	30·26	58	55	W	3	o	*

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Holyhead ...	30·24	59	56	N	1	b	1
Valencia	30·24	68	62	W	2	bm	2
Scilly	30·17	66	56	ENE	3	b	2
Jersey	30·13	71	62	ENE	5	b	4
Dungeness ...	30·17	63	58	E	4	bc	3
London	30·20	66	58	SSE	2	o	*
Yarmouth ...	30·23	62	58	NE	3	b	3
Rochefort ...	30·03	69	67	NW	2	bc	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was increasing decidedly in the northwest, and that it varied from between 30·10 ins. and 30·23 ins. over the British Islands, North Sea and west of Norway, and from about 29·9 ins. over Central Russia to 29·7 ins. and less in a small depression lying over the Gulf of Riga, to 29·8 ins. and less, over the whole of western Russia, Poland and Austria, and to less than 29·9 ins. in shallow depressions lying over the northern parts of the Mediterranean, the southeast of Spain and Algeria. The prevailing wind was N. by over Scandinavia and Denmark, NW. by to W. by over Germany, and S. by in the Baltic Provinces and Finland. In the southern parts of the British Islands, the English Channel and France it was NE. by; light to fresh, but in all other regions variable. The weather was fair and dry over western Europe, but cloudy in places; in Sweden, central and southeastern Europe it was less settled, and at Breslau and Cracow rain was falling. Temperature again exceeded 70° in several parts of Russia and Austria and on the southern shores of the Mediterranean, but was much lower at the French, British and Norwegian stations. The highest morning values recorded were 75° at Barcelona and Cagliari, 74° at Memel and Brindisi, 73° at La Calle, 72° at Buda Pesth, 71° at Nemours, Sfax, Malta, Odessa, Kief and Lemberg, and 70° at Palermo. The lowest were 51° at Haparanda, 54° at Sumburgh Head and Stornoway, and below 60° over Ireland, the northern half of Great Britain and on the eastern shores of the North Sea.

During the day dry weather continued prevalent over the United Kingdom, but the sky was cloudy at times in the southeast. In the west of France thunderstorms occurred, and in Bavaria a good deal of rain fell.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

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DAILY WEATHER REPORT.

for WEDNESDAY 19TH JUNE. 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·22	54	N	4	0	30·24	+·14	56	52	+6	NNW	2	0	*	59	46	—
	Hernösand ...	?	?	?	?	?	30·24	+·25	59	54	+1	E	4	bc	*	61	54	0·04
	Stockholm ...	29·94	50	N	6	0	29·99	+·12	59	58	+4	N	4	0	*	?	46	0·75
	Wisby	29·89	48	NNE	4	p	29·94	+·17	61	59	+10	ESE	4	bc	*	?	45	0·80
	Bodö	30·28	54	2	0	b	30·32	+·09	54	50	0	2	0	b	1	59	48	—
	Christiansund...	30·26	57	NNE	3	b	30·25	+·01	59	52	+3	NE	3	b	2	59	50	—
	Skudesnaes ...	30·12	55	NNW	8	c	30·15	−·04	67	57	+10	E	2	b	3	?	52	—
	Christiania Fjord (Fiorder)	30·03	65	WSW	6	b	30·08	−·04	62	55	+4	NNE	6	0	2	66	?	—
	Skagen (The Scaw)	30·02	63	N	3	c	29·99	−·09	59	58	0	NE	3	p	2	70	59	—
	Fanö	30·08	54	NW	1	b	30·06	−·09	55	55	−6	NW	3	c	*	64	46	—
BRITISH ISLANDS.	Sumburgh Head	30·28	58	NW	1	b	30·29	+·02	53	52	−2	NNE	1	0	1	60	49	—
	Stornoway ..	30·24	56	S	2	c	30·21	−·04	58	57	+3	NE	1	bc	2	58	46	—
	Wick	30·27	58	S	1	b	30·28	+·01	56	54	−1	SE	1	0	1	64	48	—
	Nairn	30·21	60	2	0	bc	30·23	−·02	56	55	+2	2	0	m	1	64	51	—
	Aberdeen... ...	30·28	57	SE	3	b	30·26	−·03	57	53	+1	ENE	2	bc	1	61	46	—
	Leith	30·21	58	E	1	b	30·24	−·03	56	54	0	NE	1	0	*	62	50	—
	Shields	30·24	57	E	2	b	30·21	−·03	56	52	−2	N	2	0	3	61	52	—
	Spurn Head ...	30·22	56	NE	2	c	30·17	−·09	55	52	−2	NE	3	0	3	59	52	—
	York	30·24	64	E	2	b	30·21	−·05	56	53	−3	ENE	1	0	*	73	52	—
	Loughborough	30·21	63	ENE	2	c	30·18	−·09	55	51	−4	NE	2	0	*	71	51	—
	Ardrossan ...	30·18	65	NW	2	b	30·20	−·05	59	56	−1	NE	3	bm	2	70	52	—
	Malin Head ...																	
	Mullaghmore ...	30·20	67	NW	1	b	30·16	−·10	61	59	+1	S	4	b	2	69	55	—
	Belmullet ...	30·21	64	NE	1	bc	30·16	−·09	65	61	+5	WSW	1	bc	*	71	59	—
	Donaghadee ...	30·21	59	NNE	3	b	30·21	−·06	54	53	−3	ESE	3	m	1	63	54	—
	Barrow-in-Furness	30·17	65	NNE	1	c	30·19	−·03	55	52	−3	NW	3	0	*	67	53	—
	Liverpool (Bidston)	30·18	63	NNW	1	bc	30·20	−·04	53	49	−11	E	3	0	3	71	52	—
	Holyhead ...	30·17	59	NNE	2	b	?	?	58	53	−4	ENE	4	b	3	64	53	—
	Parsonstown ...	30·16	74	2	0	b	30·15	−·09	59	56	−2	NE	1	c	*	76	53	—
	Valencia	30·19	65	NW	1	bm	30·14	−·08	61	59	+1	NNW	2	cm	1	69	52	—
	Roche's Point...	30·18	62	ESE	1	b	30·13	−·09	61	58	−2	E	1	b	2	65	55	—
	Pembroke ...	30·14	62	N	1	m	30·13	−·09	56	53	−4	ENE	4	bc	2	62	51	—
	Scilly	30·12	60	E	4	0	30·05	−·11	59	55	−3	ENE	3	c	4	63	52	—
	Prawle Point ...	30·14	56	E	4	b	30·05	−·13	54	52	−4	ENE	6	og	3	61	50	—
	Jersey	30·06	62	ENE	5	bm	29·98	−·16	59	57	+1	ENE	6	ogt	4	65	56	—
	Hurst Castle ...	30·12	62	E	4	bc	30·09	−·12	56	54	−4	ENE	4	c	3	66	52	—
	Dungeness ...	30·12	59	ENE	6	bc	30·05	−·12	61	57	+1	ENE	7	bc	5	65	59	—
	London	30·16	60	ENE	2	bc	30·12	−·12	58	53	+1	ENE	2	c	*	65	48	—
	Oxford	30·18	57	NE	3	c	30·15	−·10	55	50	−4	NE	3	c	*	62	48	—
	Cambridge ...	30·20	60	E	1	c	30·16	−·10	55	51	−1	E	1	0	*	64	49	—
	Yarmouth ...	30·21	58	ENE	4	b	30·15	−·09	56	53	0	NE	3	bcv	3	61	52	—
GERMANY.	Cuxhaven ...	30·15	61	N	2	b	30·06	−·10	64	60	+2	NNE	1	c	*	66	60	—
	Berlin	30·06	69	N	2	bc	30·01	−·08	66	58	+3	2	0	c	*	77	59	—
	Wiesbaden ...	*	*	*	*	*	30·05	−·08	66	58	+6	NE	2	b	*	72	54	—
	Munich	30·10	61	NE	2	bc	30·07	−·05	61	59	+3	SE	2	b	*	70	50	—
FRANCE & NETHERLANDS.	The Helder ...	30·16	58	NNE	2	b	30·12	−·10	59	54	+2	NNE	2	c	2	64	55	—
	Brussels	*	*	*	*	*	30·08	−·11	57	54	0	ENE	2	b	*	69	50	—
	Cape Gris Nez...	?	57	ENE	5	b	?	?	58	53	+3	ENE	5	b	5	63	54	—
	Paris	30·02	70	NE	3	b	29·99	−·11	63	59	+5	NE	2	b	*	75	59	—
	Brest	30·07	64	ENE	4	bc	?	?	56	53	−2	NE	5	0	2	73	52	—
	Lorient	29·96	67	NE	3	c	29·93	−·12	59	58	+1	ENE	2	0	2	70	57	0·16
	Rochefort ...	29·93	76	E	4	b	29·92	−·06	65	65	+3	ESE	1	0	2	86	59	0·28
	Belfort	29·99	63	E	1	b	30·01	−·09	60	57	0	NE	1	b	*	66	56	—
	Lyons	29·93	73	ESE	1	c	29·99	0·0	66	60	+2	S	2	b	*	79	58	—
	Nice...	29·97	70	WSW	4	b	30·04	+·08	67	65	0	NE	2	c	0	75	61	—
	Perpignan ...	29·92	75	NE	2	0	29·93	−·02	67	64	−1	2	0	0	*	79	60	—
	Biarritz	29·87	69	NE	3	0	29·91	−·01	64	63	+1	W	4	0	1	79	63	0·16
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	29·91	63	SW	3	bc	29·94	+·05	61	59	0	WSW	1	m	2	66	59	—

For Explanation of Columns, see p. 4.

‡ Received too late for insertion in Charts on p. 2.

WEATHER CHARTS

for 8 a.m. on Wednesday, 19th June 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevailed winds. They fly with the wind and their barbs and feathers refer to force thus —

⟶ = forces above 10, ⟶ = forces 8 to 10,
⟶ = forces 5 to 7, ⟶ = forces 1 to 4,
⊙ = dead calm.

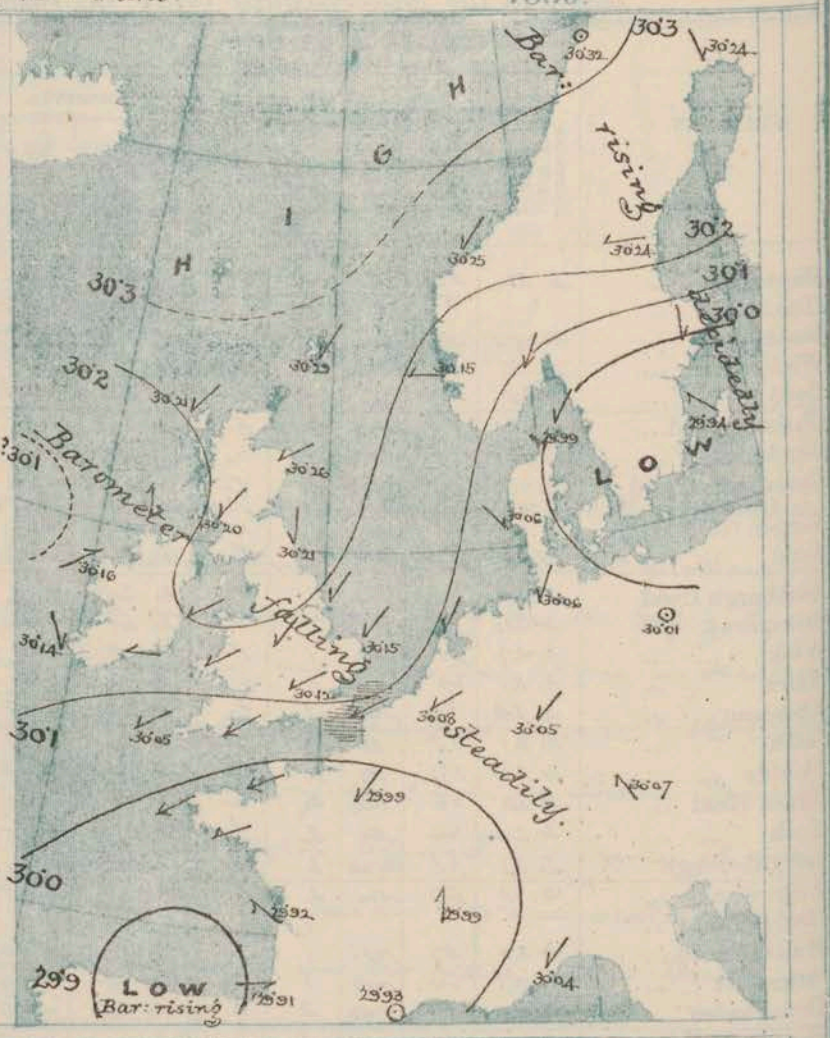
Sea Disturbance — where considerable, is shown thus.

= Rough. = High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. in.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

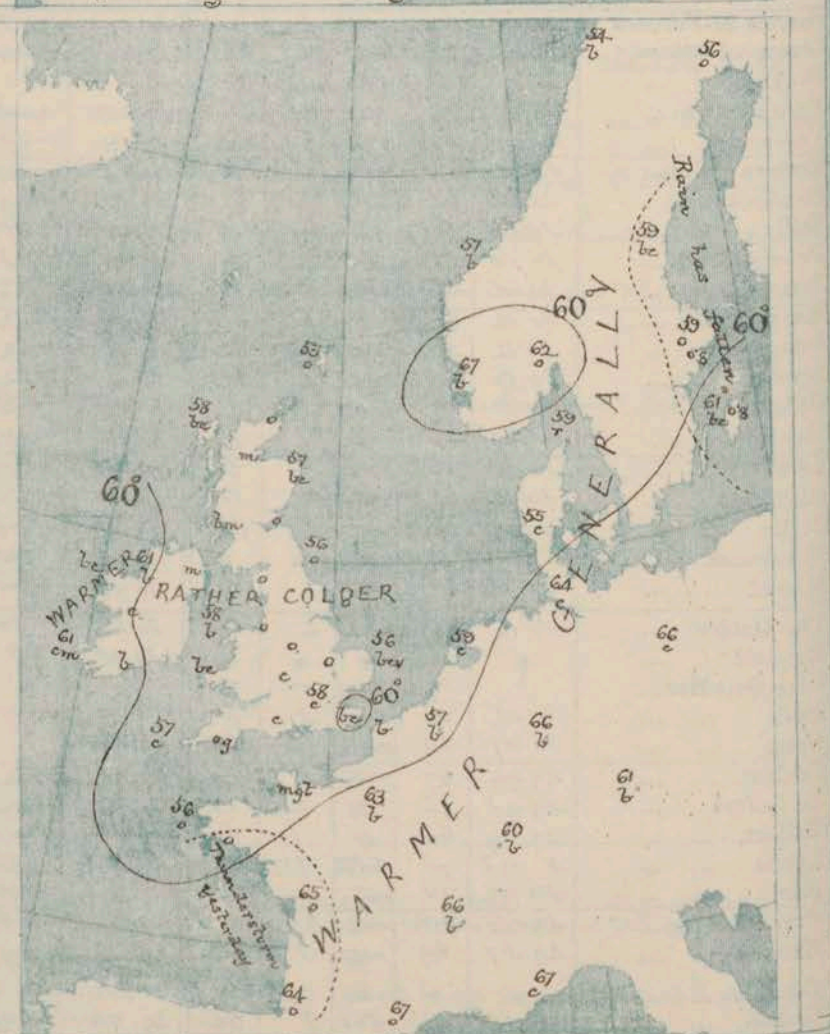
Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June

STATIONS.	TEMPERATURE. Daily Max	Daily Min	at 8 a.m. Dry	Wet	RAINFALL. (Inches)
Sumburgh Head	54·8	46·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	58·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·5	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	58·5	53·2	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·2	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 10 years 1871—85 the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest: 30·2 ins. to 30·3 ins. over the northern parts of Great Britain and the northern half of Scandinavia. 30·0 ins. and more, over the Netherlands and Germany. Lowest: 29·9 ins. and less over the Baltic and also in a shallow depression advancing northwards from Spain. Gradients, moderate over the south of Sweden, slight elsewhere. Barometer rising in the far north, and over the Baltic, falling slightly in our Islands.

TEMPERATURE — Highest, 67° at Perpignan; Nice and Shidernaes, 66° at Lyons, Wiesbaden and Berlin, 65° at Belmullet, 64° at Cuxhaven, 63° at Paris. Lowest, 53° at Lumburgh Head, 54° at Bodö, 55° at Spurn Head and Oxford, 56° at Wick, Leith, Spurn Head and Yarmouth. The maxima recorded yesterday exceeded 70° over Central Ireland and the north of England, but did not reach 65° in London.

WIND — Almost calm in Ireland and Scotland — Very light and variable over Germany. NE., moderate, in Sweden — N. to NW. over Denmark and Holstein. NE., moderate, over England, strong in the Channel — light in the west of France. SW., light at Lisbon. W., light at Biarritz.

WEATHER — Fine in most places — but cloudy at several stations, and rather unsettled in the west of France, and thundery at Jersey. Thunderstorms occurred in the west of France last night. Much rain has fallen in Gothland and the southern parts of Sweden.

SEA — Rather rough in the Channel, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depression in the south seems likely to bring thunder showers to our south and southwest coasts shortly, while another shallow system off our northwest coasts appears likely to disturb the weather in the west of Scotland and north of Ireland.

FORECASTS

for the 24 hours ending at NOON on 20th JUNE *1889.*

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SE. breezes, light; fine then some showers.	6 SCOTLAND WEST	Variable breezes, fair to showery.
1 SCOTLAND EAST		7 ENGLAND N.W.	Same as No. 2.
2 ENGLAND N.E.	E. breezes, moderate; fair, dry.	8 ENGLAND S.W.	NE. and E. breezes, fresh; fair to showery and thundery.
3 ENGLAND EAST		9 IRELAND NORTH	Same as No. 6.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Variable light breezes, fair, less settled later.
5 ENGLAND SOUTH	E. winds, fresh; fair today, perhaps showery tomorrow.	WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North Cone* is hoisted in preference to the *South Cone*.

The **North Cone**, *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South Cone* is hoisted in preference to the *North Cone*.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30.15	59	53	N 8	bc	4	Holyhead ...	30.20	61	57	NW 2	b	1
Sumburgh Head	30.29	58	54	NW 1	b	0	Valencia	30.21	68	62	SW 2	bm	2
Stornoway ...	30.25	58	56	S 3	b	2	Scilly	30.15	62	57	E 4	b	4
Aberdeen ...	30.29	60	56	SSE 3	b	1	Jersey	30.10	64	59	ENE 5	bm	4
Shields	30.24	58	53	E 2	b	2	Dungeness ...	30.14	62	55	ENE 6	bc	5
Ardrossan ...	30.22	70	64	NW 2	b	1	London	30.19	62	54	SE 2	bc	*
Malin Head ...	30.25	58	54	E 3	b	1	Yarmouth ...	30.23	61	56	ENE 3	bv	3
Mullaghmore ...	30.23	67	61	NNW 1	b	2	Rochefort ...	29.97	82	75	E 4	c	2
Belmullet ...	30.14	68	62	NE 1	b	*							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure ranged from 30·2 ins. and more in an anticyclone lying over the British Islands, the North Sea and Norway to 29·9 ins. and less in a shallow depression over the western half of Spain, and over the whole of Southeastern Europe, and to 29·7 ins. in a well marked depression lying over the Gulf of Riga. Moderately steep gradients for N. winds prevailed over the eastern parts of the Baltic; elsewhere the gradients were slighter, and over our Islands they were almost nil. N. winds, strong to a gale in force prevailed over the southern half of Scandinavia, NW. breezes over Germany, and SE. over Finland. Variable airs were felt over the greater part of the British Islands, but at our southern stations and in the Channel and north of France the wind was rather strong from NE.; in the southwest of France it was SE., and in Portugal SW. Weather was dull and unsettled over the Baltic and some parts of North Germany, as well as over the southeastern parts of the Spanish Peninsula. In our Islands it was fair and dry, while over Norway, Denmark, Western Germany, Central France and Southeastern Europe it was very bright. Temperature was not high for the time of year except over Finland. The highest morning values reported being 79° at Palma, 75° at Constantinople, 74° at Barcelona, Cagliari, and Brindisi, 73° at Malta, 72° at Palermo and Odessa, 71° at Lesbon, 70° at Lesina, Trieste, and Nicolaieff. At Kustjo and St Petersburg it was 67°, at Berlin 63°, at Paris 58° and in London 57°. The lowest were 50° at Haparanda, 54° in the northwest of Norway, 55° at Lerwick Head.

During the day a great deal of rain fell on the western shores of the Baltic, and thunderstorms set in over the southwest of France. In our Islands the weather remained dry, but was cloudy at times in several localities.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Thursday, 20th June, 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·12	57	E	2	b	30·00	-·24	64	56	+8	N	4	b	*	72	48	-
	Hernösand ...	30·21	62	Z	0	bc	30·08	-·16	61	57	+2	Z	0	c	*	75	55	-
	Stockholm ...	30·14	61	ESE	2	b	30·06	+·07	66	59	+7	W	2	b	*	68	43	-
	Wisby	?	57	E	2	b	30·05	+·11	56	53	-5	NNE	4	f	*	68	45	-
	Bodö	30·25	52	WNW	2	c	30·19	-·13	50	47	-4	WNW	4	a0	2	59	48	-
	Christiansund...	30·24	60	NNE	5	b	30·26	+·01	59	52	+2	NNE	6	b	2	64	52	-
	Skudesnaes ...	30·11	71	NW	6	bc	30·13	-·02	64	58	-3	E	2	b	3	72	55	-
	Christiania Fjord (Færder)	30·09	66	W	2	b	30·10	+·02	66	62	+4	N	2	b	1	70	?	0·04
	Skagen (The Scaw)	30·05	65	NNE	1	b	30·09	+·10	66	61	+7	E	1	b	1	73	57	-
	Fanö	30·02	60	N	2	c	30·04	-·02	67	60	+12	NE	4	b	*	70	55	-
BRITISH ISLANDS.	Sumburgh Head	30·26	53	NE	3	o	30·25	-·04	54	52	+1	NE	3	bc	3	57	50	-
	Stornoway ..	30·18	59	NE	3	b	30·20	-·01	58	56	0	E	3	b	3	64	46	-
	Wick	30·25	52	E	3	f	30·25	-·03	53	51	-3	E	2	o	2	64	49	-
	Nairn	30·22	57	ENE	2	b	30·24	+·01	54	51	-2	E	2	c	1	63	51	-
	Aberdeen... ...	30·24	54	NE	3	b	30·25	-·01	55	52	-2	N	2	c	3	60	52	-
	Leith	30·28	55	E	1	m	30·22	-·02	55	52	-1	NE	2	o	*	60	52	-
	Shields	30·17	56	N	2	o	30·18	-·03	57	54	+1	N	2	c	3	58	51	-
	Spurn Head ...	30·13	56	NE	3	c	30·15	-·02	56	53	+1	NE	3	o	3	60	52	-
	York	? 30·16	59	E	1	o	? 30·17	-·04	69	55	+3	ENE	2	bc	*	63	53	-
	Loughborough	30·18	62	ENE	2	c	30·15	-·03	58	54	+3	ENE	2	c	*	64	52	-
	Ardrossan ...	30·16	66	NE	2	b	30·19	-·01	57	53	-2	NE	2	om	1	68	52	-
	Malin Head ...	30·16	60	ESE	3	b	30·16		56	52		SE	4	bm	2	61	52	-
	Mullaghmore ...	30·12	65	ENE	4	m	30·16	00	60	56	-1	E	3	bcw	2	71	54	-
	Belmullet ...	30·13	62	NNE	2	b	30·16	·00	61	57	-4	E	1	b	*	71	54	-
	Donaghadee ...	30·17	60	NE	3	b	? 30·20	-·01	54	52	0	ENE	3	m	1	62	52	-
	Barrow-in-Furness	30·14	? 60	NE	3	b	30·16	-·03	55	53	0	NE	2	o	*	64	54	-
	Liverpool (Bidston)	30·12	61	E	3	c	30·15	-·05	59	53	+6	E	3	c	3	63	53	-
	Holyhead ...	30·11	56	ENE	4	bm	30·13	?	56	53	-2	ENE	4	ogm	5	63	53	-
	Parsonstown ...	30·11	64	NE	1	bc	30·13	-·02	57	54	-2	NE	1	c	*	70	49	-
	Valencia	30·10	61	NNW	4	cm	30·10	-·04	62	58	+1	SSW	1	bcm	0	66	52	-
	Roche's Point...	30·10	60	ESE	3	b	30·09	-·04	60	55	-1	E	4	b	3	64	52	-
	Pembroke ...	30·07	61	WNW	1	bc	30·08	-·05	56	53	0	ENE	3	b	2	61	51	-
	Scilly	30·02	57	NE	4	op	29·99	-·06	57	55	0	NE	4	op	3	59	55	0·03
	Prawle Point ...	29·99	60	NE	5	c	30·02	-·03	56	54	+2	NE	6	bc	4	62	51	0·12
	Jersey	29·93	63	NE	5	b	29·96	-·02	59	58	0	ENE	5	om	4	64	56	1·92
	Hurst Castle ...	30·02	64	E	4	c	30·05	-·04	57	55	+1	ENE	5	o	3	69	53	-
	Dungeness ...	30·04	59	ENE	5	b	30·02	-·03	57	55	-4	ENE	5	c	4	65	55	-
	London	30·07	61	E	2	bc	30·09	-·03	56	53	-2	E	2	o	*	68	53	-
	Oxford	30·10	56	NE	3	b	30·11	-·04	54	51	-1	NE	3	o	*	64	51	-
	Cambridge ...	30·10	61	NE	1	o	30·12	-·04	60	55	+5	NE	1	bc	*	66	52	-
	Yarmouth ...	30·11	58	NE	3	bc	30·11	-·04	56	55	0	NE	3	c	3	61	53	-
GERMANY.	Cuxhaven ...	?	63	NNW	3	c	30·00	-·06	64	61	0	NE	3	b	*	66	63	-
	Berlin	29·96	64	Z	0	c	29·93	-·08	61	58	-5	NW	3	o	*	75	59	-
	Wiesbaden ...	*	*	*	*	*	29·99	-·06	66	58	0	NE	1	b	*	77	55	-
	Munich	30·05	63	SW	2	o	30·02	-·05	65	61	+4	SW	4	b	*	73	55	0·24
FRANCE & NETHERLANDS.	The Helder ...	30·07	59	NNE	2	b	‡ 30·06	-·06	62	59	+3	NE	2	c	2	66	57	-
	Brussels .. ... 9 AM	*	*	*	*	*	30·02	-·06	63	56	+6	E	2	b	*	75	?	-
	Cape Gris Nez...	?	58	NE	5	b	?	?	58	56	0	ENE	5	o	5	63	55	-
	Paris	29·93	74	NE	2	bc	29·93	-·06	66	61	+3	NE	2	b	*	82	60	-
	Brest	?	67	E	1	b	?	?	60	58	+4	NE	1	o	2	74	55	0·04
	Lorient	29·92	66	WNW	2	b	29·90	-·03	62	62	+3	E	1	o	2	72	59	-
	Rochefort ...	29·92	73	Z	0	k	29·88	-·04	68	66	+3	N	3	c	2	79	61	-
	Belfort														*			
	Lyons	29·95	69	NNE	2	o	29·92	-·07	62	58	-4	S	1	o	*	81	58	-
	Nice...	29·97	74	Z	0	b	29·94	-·07	61	60	-6	NE	6	o	4	75	61	0·08
PENINSULA.	Perpignan ...	29·93	70	E	3	b	29·85	-·08	66	63	-1	E	3	r	*	80	61	0·04
	Biarritz	29·91	64	NW	3	r	29·84	-·07	63	63	-1	W	5	r	2	68	63	0·63
	Corunna	*	*	*	*	*												
	Lisbon.	29·98	63	SW	4	o	30·02	+·08	62	60	+1	WSW	1	o	2	68	?	-

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2.*

WEATHER CHARTS

for 8 a.m. on Thursday, 20th June. 1889.

BAROMETER, WIND & SEA.

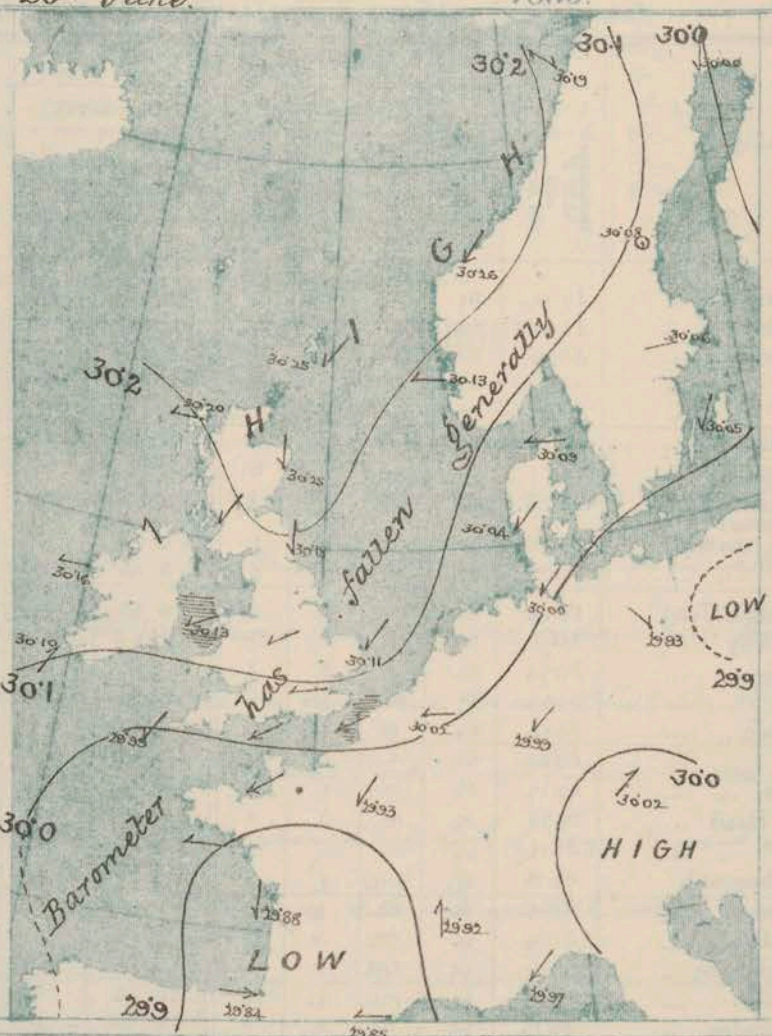
(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus —*

➤ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — *where considerable, is shewn thus.*
= Rough. = High.



MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. in.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963

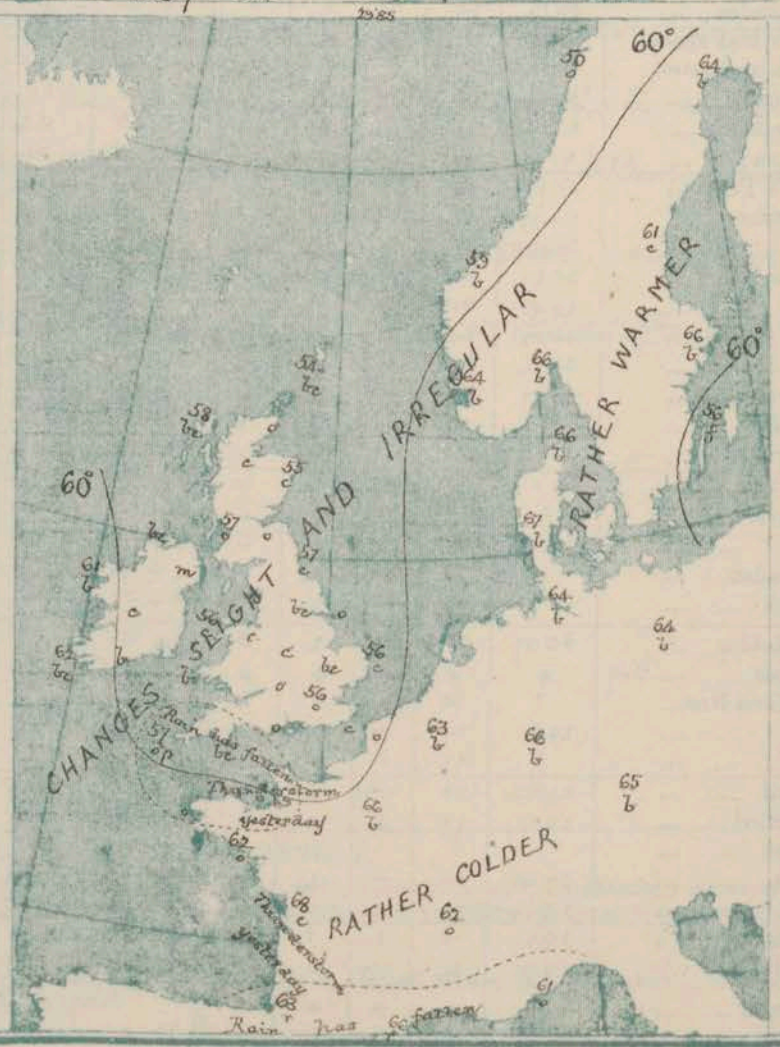
TEMPERATURE, & WEATHER at 8 A.M.,

with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° Changes since previous morning are stated in words.*

Weather *is shown by Letters of the Beaufort Scale.*

Rainfall *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.*



MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June

STATIONS	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	at 8 a.m. Wet	RAINFALL. (Inches)
Sumburgh Head	54·3	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·2	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	58·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·5	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	64·2	51·4	56·9	54·1	2·02

NOTE – The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866-85

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·10 ins: to 30·25 ins: over the greater part of the British Isles, North Sea and Norway; 30·00 ins: and more over Italy and the Adriatic and also over the southwest of Spain. Lowest, 29·8 ins: and less, in a depression of irregular form lying over the southwest of France and apparently over the western parts of the Mediterranean. Gradients slight — especially in the north. Barometer rising a little over the Baltic and in the southwest of Spain, stationary or falling slightly elsewhere.

TEMPERATURE — Highest, 68° at Rochefort, 67° at Lans, 66° at Perpignan, Paris, Wiesbaden, the Scaw, and Stockholm, 65° at Munich, 65° at Brussels and Biarritz, 62° at Valencia, 61° at Bordeaux and Belle-Ile. Lowest, 50° at Bodo, 53° at Wick, 54° at Lumburgh Head, Skein, Donaghadee and Oxford, 56° in London. Daily maxima exceeded 70° yesterday in the northwest of Ireland only. [A great rise of temperature was in progress over Algeria.]

WIND — Moderate to light from N.ward over Scandinavia, from NE. in Holstein and the Netherlands, from NE and E. over the British Islands and north of France — (fresh in the Channel). Over the Spanish Peninsula the wind is apparently W.ly.

WEATHER — Cloudy in Sweden and North Germany — fine in Norway and Denmark, the Netherlands and Western Germany. Fair over the United Kingdom (except at Scilly) — dull over Brittany. Dull in the west and south of France, rain at Biarritz. Heavy thunderstorms and rain occurred at Jersey and Biarritz yesterday, slight showers in a few other localities.

SEA — Rather rough at Holyhead, moderate in the English Channel, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression over France and the Bay of Biscay appears to have undergone some modification during the night, and does not now threaten our southern counties with disturbed weather.

FORECASTS

for the 24 hours ending at NOON on 21st JUNE *1889.*

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH; 1 SCOTLAND EAST	Very light winds, mainly NE.ly; fair generally, hazy.
2 ENGLAND N.E.; 3 ENGLAND EAST; 4 MIDLAND COUNTIES; 5 ENGLAND SOUTH	NE.ly breezes, light or moderate; fine generally.
6 SCOTLAND WEST; 7 ENGLAND N.W.	NE.ly and E.ly breezes, light; fair.
8 ENGLAND S.W.	NE.ly breezes, fresh; fair as a whole.
9 IRELAND NORTH; 10 IRELAND SOUTH	E.ly breezes, moderate or light; fair.
WARNINGS	NONE ISSUED

Note.—The **South Cone,** *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30·12	71	58	NW 4	c	3
Sumburgh Head	30·28	66	54	NE 2	b	2
Stornoway ...	30·20	63	63	NE 3	b	2
Aberdeen ...	30·25	57	54	NE 4	bc	3
Shields	30·21	57	55	N 3	a	3
Ardrossan ...	30·18	68	61	NE 3	c	2
Malin Head ...	30·16	59	56	ESE 3	o	2
Mullaghmore ...	30·14	67	62	NW 3	cm	2
Belmullet ...	30·15	70	63	NE 1	b	*

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Holyhead ...	30·13	62	56	E 4	b	4
Valencia	30·12	66	62	NNW 4	bm	3
Scilly	30·05	57	57	ENE 4	o	4
Jersey	29.96	64	61	NE 3	c	3
Dungeness ...	30·06	62	57	ENE 6	bc	5
London	30·09	64	55	ENE 2	bc	*
Yarmouth ...	30·14	61	56	NE 3	bcv	3
Rochefort ...	29·94	75	70	NE 2	b	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The Continental Information will appear in tomorrow's report.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Friday, 21st June, 1889

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29.92	60	N	2	c	30.01	+.01	53	46	-11	N	4	bc	*	72	52	-
	Hernösand ...	29.99	68	NNW	4	b	30.02	-.06	57	50	-4	N	4	bc	*	64	55	-
	Stockholm ...	29.96	62	E	2	0	29.89	-.17	63	56	-3	NNW	2	bc	*	73	50	-
	Wisby	29.95	55	NE	4	b	29.87	-.18	58	55	+2	NNE	4	bc	*	64	48	-
	Bodö	30.21	49	NNW	4	0	30.20	+.01	49	45	-1	N	2	0	1	50	45	-
	Christiansund...	30.22	55	NE	7	bc	30.18	-.08	54	48	-5	NE	6	c	3	63	48	-
	Skudesnaes ...	30.08	61	WNW	4	b	30.01	-.12	56	54	-8	WNW	4	0	2	72	52	-
	Christiania Fjord (Fardar)	29.97	68	W	5	b	29.99	-.11	62	54	-4	NNW	6	c	1	70	61	-
	Skagen (The Scaw)	29.95	68	NW	1	bc	29.92	-.17	67	64	+1	?	0	0	0	73	59	-
	Fanö	30.02	61	NNW	1	b	30.00	-.04	68	63	+1	NW	4	b	*	73	54	-
BRITISH ISLANDS.	Sumburgh Head	30.22	58	NE	1	0	30.17	-.08	54	52	0	NE	2	bc	3	56	49	-
	Stornoway ..	30.15	59	NE	3	b	30.12	-.08	58	57	0	?	0	m	2	62	45	-
	Wick	30.29	58	E	1	0	30.13	-.12	53	52	0	E	1	f	1	59	49	-
	Nairn	30.18	58	E	2	b	30.16	-.08	53	52	-1	?	0	m	1	61	52	-
	Aberdeen... ...	30.21	55	ENE	2	b	30.19	-.06	55	51	0	NNW	1	c	2	59	49	-
	Leith ...	30.20	53	E	2	b	30.18	-.04	52	50	-3	E	1	om	*	60	49	-
	Shields	30.16	56	NE	2	0	30.16	-.02	54	52	-3	N	2	0	3	60	51	-
	Spurn Head ...	30.10	55	NE	6	c	30.12	-.03	54	53	-2	NE	3	0	3	62	50	-
	York	30.13	69	NE	2	b	30.15	-.02	57	55	-2	N	1	0	*	74	50	-
	Loughborough	30.08	67	ENE	3	bc	30.13	-.02	55	54	-3	ENE	3	od	*	72	53	-
	Ardrossan ...	30.12	69	NE	3	b	30.14	-.05	58	55	+1	NE	2	bm	1	70	49	-
	Malin Head ...	30.11	56	E	3	bm	30.11	-.05	58	56	+2	ESE	3	cmw	1	59	53	-
	Mullaghmore ...	30.10	64	NW	2	b	30.10	-.06	61	58	+1	SE	1	bcmw	1	68	54	-
	Belmullet ...	30.11	68	NE	2	0	30.11	-.05	63	59	+2	NNE	1	bc	*	67	58	-
	Donaghadee ...	30.12	62	NNE	3	b	30.15	-.05	62	58	+8	NNE	2	b	1	62	53	-
	Barrow-in-Furness	30.09	70	NE	3	b	30.11	-.05	59	54	+4	NE	2	b	*	72	53	-
	Liverpool (Sidston)	30.06	70	E	2	bc	30.13	-.02	57	54	-2	ESE	2	0	2	73	53	-
	Holyhead ...	30.07	60	NNE	1	b	30.08	-.05	65	57	+9	E	4	bw	3	65	55	-
	Parsonstown ...	30.08	65	?	0	b	30.10	-.03	55	53	-2	?	0	0	*	65	44	-
	Valencia	30.09	63	W	2	b	30.09	-.01	60	58	-2	?	0	cm	0	68	51	-
	Roche's Point...	30.09	62	ESE	1	bm	30.07	-.02	62	57	+2	N	1	b	2	64	52	-
	Pembroke ...	30.03	63	N	1	bc	30.06	-.02	62	59	+6	SE	1	b	1	65	56	-
	Scilly	29.99	59	ENE	2	0	29.99	.00	62	59	+5	NE	4	c	3	62	55	0.11
	Prawle Point ...	29.96	61	NNE	3	bc	29.99	-.03	59	56	+3	NNE	6	b	4	62	50	-
	Jersey	29.92	65	E	3	bc	29.95	-.01	60	59	+1	ENE	4	ogm	3	66	57	-
	Hurst Castle ...	29.97	67	E	4	b	30.02	-.03	63	60	+6	ENE	5	bcm	2	71	55	-
	Dungeness ...	29.96	60	ENE	4	bc	30.00	-.02	59	57	+2	ENE	4	c	3	66	56	-
	London	29.99	70	NE	2	bc	30.04	-.02	61	57	+5	ENE	3	c	*	75	55	-
	Oxford	30.05	61	NE	3	b	30.10	-.01	56	54	+2	ENE	3	od	*	71	53	-
	Cambridge ...	30.06	64	NE	1	0	30.09	-.03	61	58	+1	NNE	1	0	*	70	53	-
	Yarmouth ...	30.06	62	NNE	4	b	30.08	-.03	56	55	0	NNE	3	f	3	63	53	-
GERMANY.	Cuxhaven ...	30.03	67	NE	2	b	30.03	+.03	68	64	+14	N	1	b	*	71	?	-
	Berlin	29.90	64	NW	4	b	29.96	+.03	64	56	+3	NW	5	b	*	70	55	0.12
	Wiesbaden ...	*	*	*	*	*	29.99	.00	65	59	-1	NE	3	b	*	77	55	-
	Munich	29.94	63	ESE	3	r	29.98	-.04	61	57	-4	?	0	c	*	79	54	0.12
FRANCE & NETHERLANDS.	The Helder ...	30.02	68	NE	2	b	30.05	-.01	65	62	+3	NE	1	b	1	68	59	-
	Brussels ... ... 9 AM	*	*	*	*	*	29.99	-.03	63	59	0	NNE	3	b	*	76	55	-
	Cape Gris Nez...	?	57	NNE	5	m	?	?	57	57	-1	NE	5	f	5	64	55	-
	Paris	29.86	75	E	2	bc	29.93	+.00	65	60	-1	NE	2	b	*	83	58	0.08
	Brest	?	67	ENE	1	c	?	?	59	58	-1	E	1	r	1	73	55	0.3
	Lorient	29.88	64	NW	2	b	29.91	+.01	63	62	+1	E	2	m	2	72	61	0.04
	Rochefort ...	29.89	68	WNW	3	0	29.99	+.11	64	62	-4	W	4	0	2	81	59	0.08
	Belfort														*			
	Lyons	29.91	61	SW	1	b	29.93	+.01	62	61	0	NW	1	c	*	78	58	0.55
	Nice...	29.86	70	ENE	6	c	29.90	-.07	64	64	+3	NSW	2	f	3	77	59	0.63
	Perpignan ...	29.86	69	NE	3	c	29.99	+.14	67	63	+1	W	2	bc	*	75	60	0.63
	Biarritz	29.95	62	W	6	0	30.03	+.19	62	59	-1	W	3	0	2	66	61	0.16
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon.	30.05	64	WNW	3	0	30.08	+.06	61	59	-1	NNW	3	0	?	68	59	0.12

For Explanation of Columns, see p. 4.

† Received too late for insertion in Charts on p. 2.

WEATHER CHARTS

for 8 a.m. on Friday, 21st June. 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

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⟶ = forces above 10, ⟶ = forces 8 to 10,
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at 8 a.m. for the month of June.
During the 15 Years 1871 — 1885.

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Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
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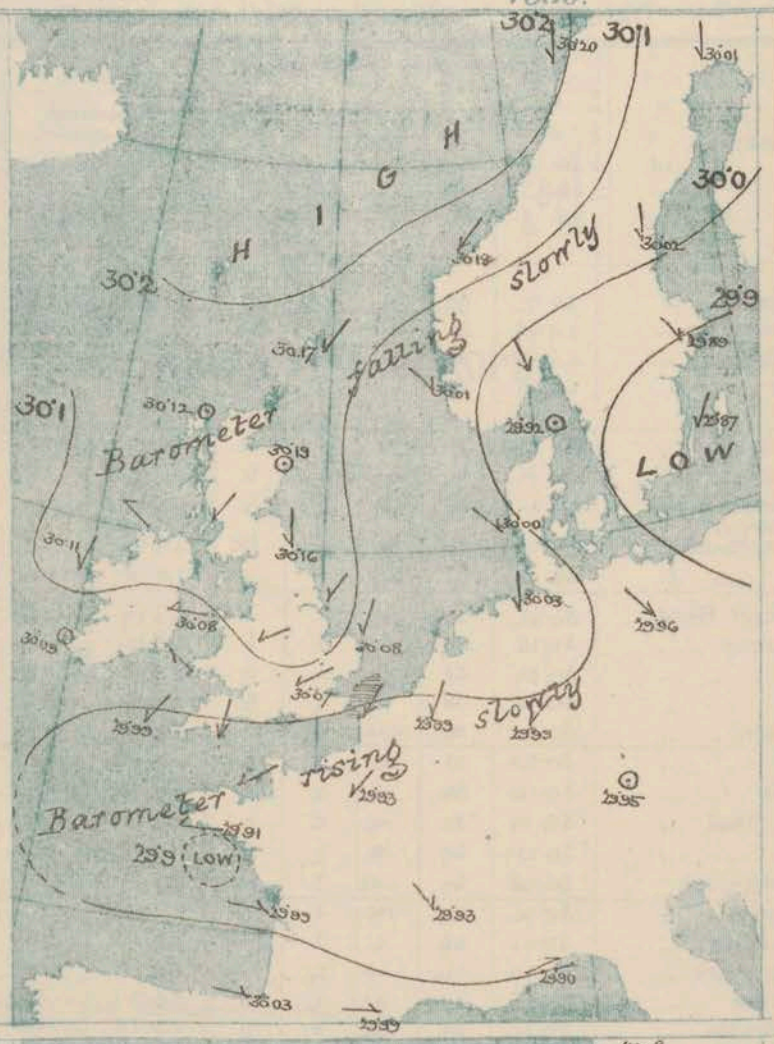

TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

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Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more, are quoted in figures.

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for the month of June.

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Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	58·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·5	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
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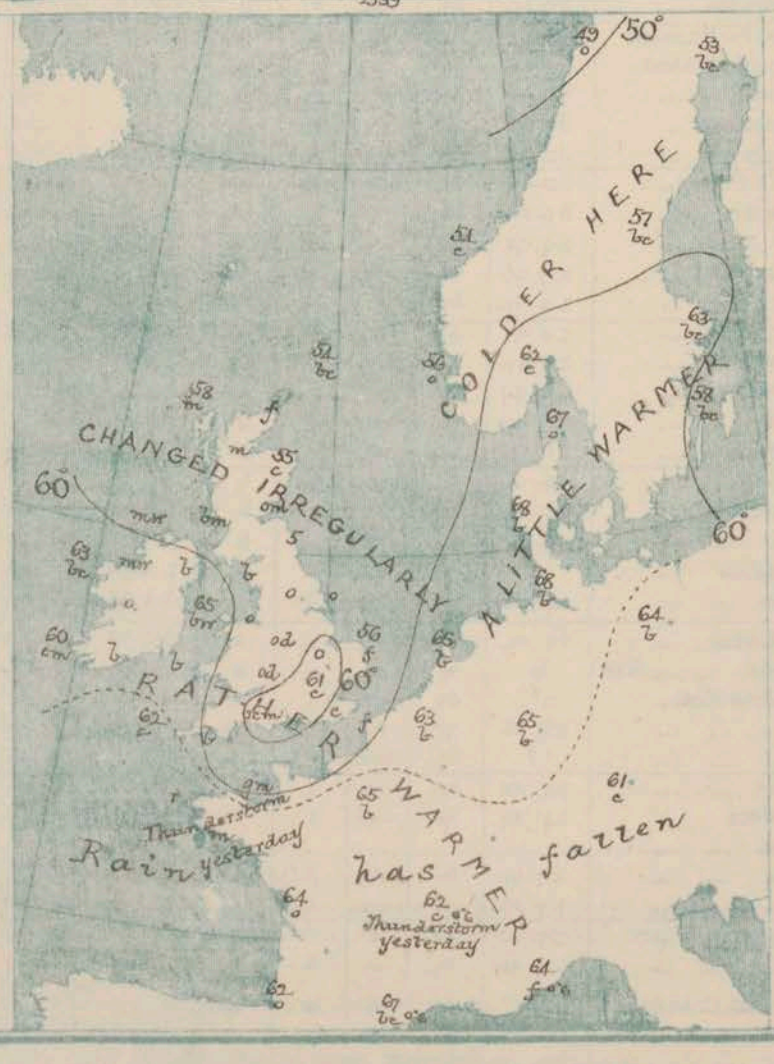
LONDON	69·2	50·5	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest = 30·1 ins: to 30·2 ins: over the northern parts of our Islands and northwest of Norway; 30·0 ins: and more over the Spanish Peninsula and southwest of France. Lowest, about 29·9 ins: over the northwest of France and over the southern parts of the British Isles. Gradients, slight, but somewhat irregular. Barometer rising in Spain and France, falling very slightly in our Islands and to the Eastward of the North Sea.

TEMPERATURE — Highest, 68° at Tenis and Cuxhaven, 67° at the Scilly and Perpignan, 65° at Paris, Wiesbaden and the Hague, 64° at Berlin. Lowest, 49° at Bodö, 52° at Leith, 53° at Haparanda, Wick and Kaiin, 54° at Christiansund, Tumbeyh Head, Shields and Spurn Head. The highest of the daily maxima recorded over our Islands yesterday varied from 70° to 74°. At Rochefort the maximum was 81° and at Paris 81°.

WIND — Very light and variable over Ireland and Scotland — NE^{ly}, light over England. NE^{ly}, moderate in the Channel — W^{ly} in the southwest and south of France — NE^{ly} on the Eastern shores of the North Sea. N^{ly} over the Gulf of Finland and the Baltic. The NE^{ly} wind appears to be dying out.

WEATHER — Fair as a whole, but cloudy in many places; with misty drizzle over the midland counties. Thunderstorms and rain have again occurred over France, the Channel Islands and some parts of Germany; showers in the Scilly Islands.

SEA — Rather rough at C. Gris Nez, moderate in the Channel generally, slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The NE^{ly} wind prevailing over England and the Channel appears to be dying out very slowly, but the W^{ly} wind in the southwest of France does not show much tendency to spread N^{wds} at present. The weather therefore seems likely to become rather less fair than of late with local passing showers in the south.

FORECASTS

for the 24 hours ending at NOON on 22nd June. 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	NE^{ly} and varying breezes, light; fair as a whole, hazy at times	6 SCOTLAND WEST 7 ENGLAND N.W.	Same as No. 0 to 2
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	NE^{ly} breezes, light or moderate; fair as a whole, cloudy and misty at times.	8 ENGLAND S.W.	NE^{ly} breezes, moderate; fair as a whole, misty and cloudy at times.
		9 IRELAND NORTH 10 IRELAND SOUTH	Varying light breezes, fair generally.
		WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North Cone* is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between N. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	30·11	72	63	WNW 4	b	2
Sumburgh Head	30·24	55	52	NE 3	c	3
Stornoway ...	30·17	60	58	NE 3	b	3
Aberdeen ...	30·24	57	53	ENE 3	b	3
Shields	30·19	59	55	NNE 3	c	3
Ardrossan ...	30·15	70	63	NE 3	c	2
Malin Head ...	30·16	59	55	E 3	b	1
Mullaghmore ...	30·14	64	58	NNW 2	b	2
Belmullet ...	30·14	67	60	NNE 2	o	*

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Holyhead ...	30·11	60	56	NE 4	b	4
Valencia	30·09	66	60	SW 1	cm	2
Scilly	30·01	60	57	ENE 2	c	3
Jersey	29·97	61	59	ENE 6	o	4
Dungeness ...	30·00	66	60	ENE 5	bc	4
London	30·03	72	61	NE 2	bcv	*
Yarmouth ...	30·10	63	60	NNE 4	bc	3
Rochefort ...	29·91	73	69	N 2	o	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The report for yesterday morning showed that pressure varied from between 30·1 ins and 30·3 ins: over Scandinavia and the greater part of the United Kingdom, ~~and from between 30·1 ins: and 30·3 ins: over Scandinavia and the greater part of the United Kingdom~~, and from between 30·0 ins: and 30·1 ins: over the southern half of Spain, Algeria, Southeastern Europe, and Russia, to between 29·8 ins: and 29·9 ins: in an irregularly formed depression lying over the west and south of France and the northwestern part of the Mediterranean, and to a rather less low value in smaller disturbances lying over Poland and Finland. Thus, while the wind was N. over Scandinavia, and NE. to E. over the North Sea, the British Isles and north of France, it was N. over the Bay of Biscay and Spain and extremely variable elsewhere. The weather was fair over Northwestern and Northern Europe, but cloudy or hazy in places — fine over Russia and Southeastern Europe — changeable elsewhere, with rain at Perpignan and overcast skies in many places. Temperature was inclined to rise over Central Europe, but was changing irregularly elsewhere, and did not exceed 70° over any but the extreme southern and southeastern parts of Europe. Over Algeria it was falling fast. The highest morning values were 77° at Cagliari, 76° at Lac and Palermo, 75° at Barcelona, Malta, Brindisi and Constantinople, 74° at Odessa, 73° at Algiers, Palma, and Pescara, 72° at La Calle and Nicolaieff. The lowest were 50° at Bodo, 53° at Wick, 54° at Sumburgh Head, Donaghadee and Oxford, 55° or 56° in many other parts of our Islands.

Later in the day temperature rose to 83° at Paris, 81° at Rochefort, 79° at Munich, and to between 70° and 75° over the inland parts of the British Isles. Thunderstorms occurred over the Continent and Channel Islands, and showers fell at Scilly. Over the United Kingdom the weather was fine.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Saturday, 22nd June, 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·08	54	NE	2	bc	30·11	+·10	54	46	+ 1	NE	4	b	*	57	48	-
	Hernösand ...	30·07	54	Z	0	b	30·10	+·08	57	49	0	NE	4	b	*	68	54	-
	Stockholm ...	29·92	53	NNW	4	b	29·95	+·06	55	50	- 8	NNW	4	b	*	68	52	-
	Wisby	29·89	54	NNE	4	b	29·89	+·02	50	48	- 8	N	4	0	*	59	?	-
	Bodö	30·17	50	Z	0	b	30·13	-·07	50	46	+ 1	N	1	b	1	54	43	-
	Christiansund...	30·10	54	NE	8	b	?	?	56	51	+ 2	ENE	3	m	2	?	48	-
	Skudesnaes ...	29·93	56	W	2	0	30·01	00	59	56	+ 3	W	1	b	2	63	52	-
	Christiania Fjord (Fiarder)	29·89	69	NNW	3	b	30·04	+·05	60	52	- 2	N	3	b	1	?	57	-
	Skagen (The Scaw)	29·88	65	NE	1	0	29·98	+·06	62	54	- 5	E	3	b	2	73	59	0·08
	Fanö	29·96	58	NW	4	c	29·93	-·07	60	54	- 8	NW	4	c	*	72	55	-
	Sumburgh Head	30·11	54	NE	2	b	30·14	-·03	53	51	- 1	NNW	1	b	3	58	42	-
	Stornoway ..	30·10	63	Z	0	b	30·19	+·07	53	52	- 5	N	3	0	3	64	49	-
	Wick	30·12	56	Z	0	b	30·12	-·01	59	56	+ 6	E	3	b	2	59	39	-
	Nairn	30·10	58	ENE	2	b	30·12	-·04	61	58	+ 8	Z	0	bm	1	61	50	-
	Aberdeen... ...	30·13	52	E	1	0	30·13	-·06	60	55	+ 5	NW	2	b	2	61	48	-
BRITISH ISLANDS.	Leith	30·09	54	E	1	b	30·12	-·06	62	57	+ 10	N	1	bm	*	62	50	-
	Shields	30·10	57	E	2	b	30·10	-·06	53	52	- 1	NNW	2	f	3	57	49	-
	Spurn Head ...	30·11	54	NE	2	0	30·10	-·02	55	53	+ 1	N	1	0	2	56	51	-
	York	‡30·10	70	E	1	b	‡30·10	-·05	58	56	+ 1	N	1	b	*	72	50	-
	Loughborough	30·09	70	ENE	2	b	30·13	·00	56	55	+ 1	Z	0	0m	*	72	51	-
	Ardrossan ...	30·07	73	WNW	2	bm	30·12	-·02	65	60	+ 7	NNW	1	b	1	75	53	-
	Malin Head ...	30·08	63	E	2	bm	30·20	+·09	55	54	- 3	NNW	3	0f	3	65	54	-
	Mullaghmore ...	30·10	64	W	4	bcm	30·20	+·10	57	56	- 4	NNE	5	0m	3	70	55	-
	Belmullet ...	30·15	59	N	2	0	30·21	+·10	57	55	- 6	NNW	2	0	*	64	55	-
	Donaghadee ...	30·11	69	NE	2	m	30·17	+·02	58	55	- 4	NNE	4	m	2	72	56	-
	Barrow-in-Furness	30·08	68	NW	2	b	‡30·10	-·01	62	59	+ 3	NW	1	bc	*	70	57	-
	Liverpool (Sideton)	30·08	69	SE	2	b	30·13	·00	64	59	+ 7	W	2	b	3	72	57	-
	Holyhead ...	30·07	62	WNW	1	bc	30·14	+·06	64	59	- 1	Z	0	bmw	0	71	54	-
	Parsonstown ...	30·06	74	Z	0	bc	30·18	+·08	57	56	+ 2	Z	0	0	*	78	52	-
	Valencia	30·10	64	NNW	3	cm	30·17	+·08	62	60	+ 2	N	2	cm	2	70	55	-
	Roche's Point...	30·08	65	ESE	1	b	30·13	+·06	63	58	+ 1	NNW	1	b	2	68	55	-
	Pembroke ...	30·06	61	NW	1	b	30·12	+·06	64	60	+ 2	ENE	1	b	0	64	56	-
	Scilly	30·01	60	NNE	3	c	30·08	+·09	66	61	+ 4	ENE	1	bc	2	66	56	-
	Prawle Point ...	30·00	66	ENE	4	b	30·09	+·08	69	64	+ 10	NNE	3	b	2	70	56	-
	Jersey	29·96	64	E	3	0	30·03	+·08	58	56	- 2	ENE	3	0m	3	65	56	0·04
	Hurst Castle ...	30·01	68	E	2	b	30·09	+·07	61	58	- 2	NE	2	bm	1	72	56	-
	Dungeness ...	29·99	63	NE	4	b	30·05	+·05	59	56	0	NE	4	c	3	67	55	-
	London	30·03	69	E	2	bm	30·11	+·04	55	53	- 6	NE	1	0gm	*	74	54	-
	Oxford	30·08	62	NE	2	b	30·12	+·02	54	52	- 2	NE	1	0	*	71	51	-
	Cambridge ...	30·07	62	N	1	b	30·11	+·02	56	54	- 5	N	1	c	*	71	50	-
	Yarmouth ...	30·08	57	N	3	cf	30·09	+·01	53	52	- 3	N	2	c	3	58	51	-
GERMANY.	Cuxhaven ...	29·99	62	N	2	b	29·98	-·05	62	59	- 6	NW	3	0	*	68	60	-
	Berlin	29·95	64	WNW	1	c	29·94	-·02	66	63	+ 2	WSW	2	b	*	77	59	0·63
	Wiesbaden ...	*	*	*	*	*	30·00	+·01	64	59	- 1	NE	2	b	*	75	54	-
	Munich	30·00	62	NE	1	b	30·01	+·03	64	58	+ 3	E	4	c	*	72	53	-
FRANCE & NETHERLANDS.	The Helder ...	30·04	59	NNE	2	0	30·04	-·01	58	55	- 7	N	1	c	2	70	57	-
	Brussels .. ... 9 AM	*	*	*	*	*	30·02	·00	63	60	0	N	1	bc	*	79	57	-
	Cape Gris Nez...	?	56	NE	5	f	?	?	54	53	- 3	NE	4	m	4	61	54	-
	Paris	29·93	75	E	2	bc	29·99	+·06	63	60	- 2	NNW	2	b	*	83	58	-
	Brest	?	66	E	1	0	?	?	61	60	+ 2	Z	0	r	1	73	55	0·28
	Lorient	29·97	61	SSW	2	m	30·00	+·09	60	59	- 3	Z	0	0	2	66	59	-
	Rochefort ...	30·04	66	WNW	4	0	30·07	+·08	64	63	0	NNW	3	0	2	70	57	-
	Belfort	29·92	65	NW	1	0	29·97		65	61		NW	1	0	*	71	61	-
	Lyons	29·94	68	NNW	2	c	30·01	+·08	64	62	+ 2	E	1	0	*	78	60	0·04
	Nice...	29·87	72	NE	3	b	29·94	+·04	68	66	+ 4	NNE	3	bc	4	77	63	
	Perpignan ...	30·00	70	Z	0	0	30·00	+·01	61	60	- 6	W	2	r	*	84	60	0·20
	Biarritz	30·02	66	NW	3	0	30·03	·00	63	61	+ 1	S	1	0	1	72	61	-
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30·12	62	NW	4	bc	30·18	+·10	60	57	- 1	NW	3	0	3	70	57	-

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Saturday, 22nd June 1889.

BAROMETER, WIND & SEA

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus —

→ = forces above 10, → = forces 8 to 10,
→ = forces 5 to 7, → = forces 1 to 4,
⊙ = dead calm.

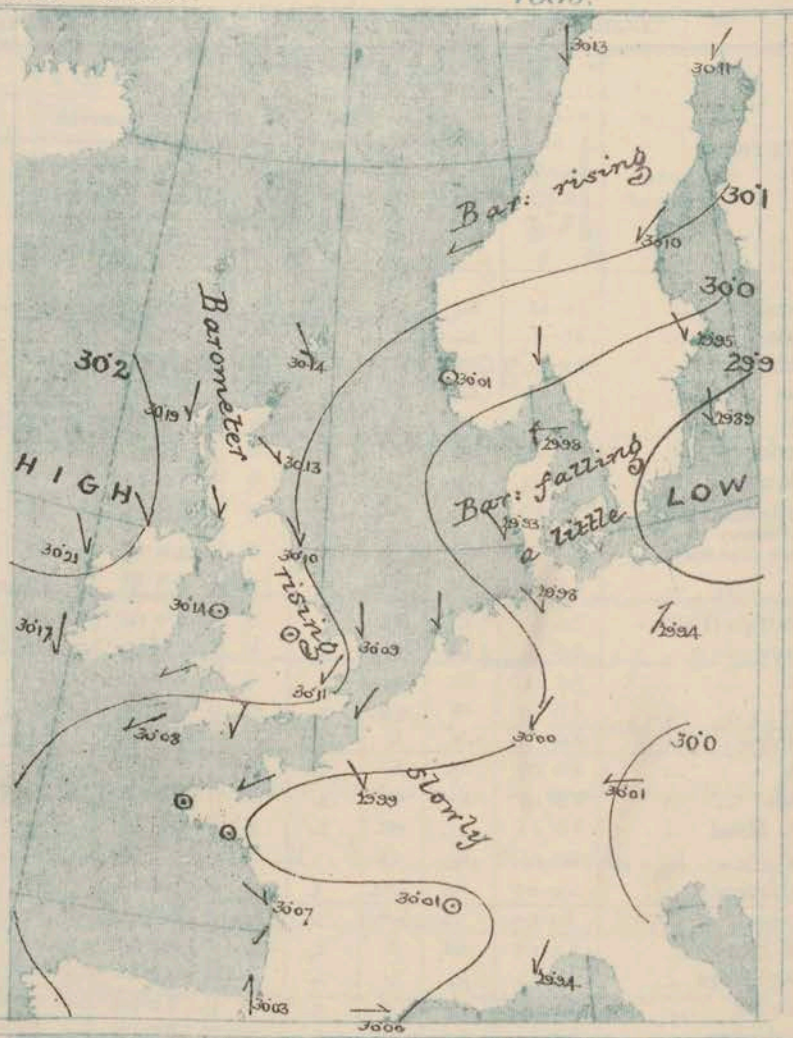
Sea Disturbance — where considerable, is shewn thus.

= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M.

with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

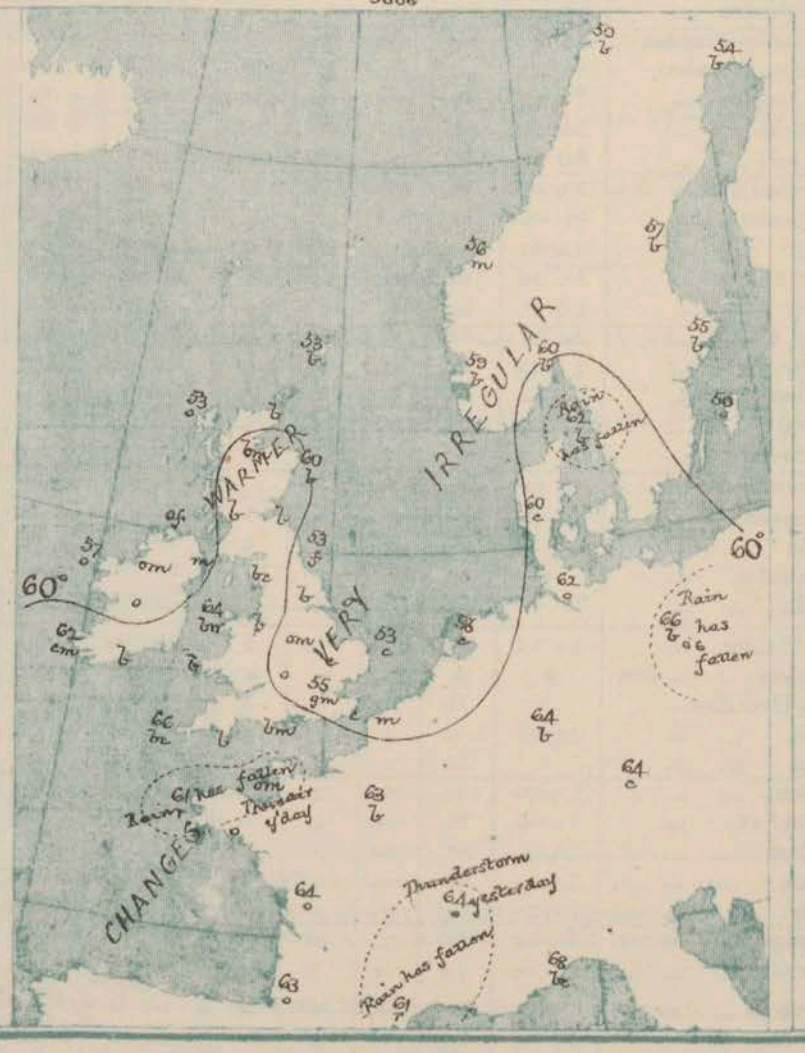
Rainfall A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June

STATIONS	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	at 8 a.m. Wet	RAINFALL. (Inches.)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·9	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE – The Temperature means are for the 16 years 1871–85, the Rainfall means are mainly those for the 20 years 1866–85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·10 ins: to 30·2 ins: over the western and northern parts of the British Islands.
Lowest, 29·9 ins: and less, over the Baltic and Baltic Provinces; 30·0 ins: and less, over Central France.
Gradients slight ~~slight~~ and much more regular than of late.
Barometer slowly rising in our Islands and France, falling slowly over Denmark and Germany.

TEMPERATURE — Highest, 69° at Prawle Point, 68° at Nice, 66° at Berlin and Scilly, 65° at Ardrossan, 64° at Wiesbaden, Lyons, and Rockfort, 61° at Nairn.
Lowest, 50° at Boda and Wick, 53° at Lumburgh Head, Stornoway, Shields and Yarmouth, 54° at Oxford, 55° in London.
Daily maxima at our inland stations yesterday varied from 70° to 78°; at Paris the maximum was 83°
Changes in night have been very irregular, but apparently temporary.

WIND — Moderate N. over Sweden and the Baltic — NW. in Holstein — SW. at Berlin.
Light N. over the greater part of our Islands — moderate NE. in the Channel
NW. over Spain and many parts of France — Variable elsewhere.

WEATHER — Fine generally — clear in many places, hazy and dull in others.
Thunderstorms have again been prevalent over France and the Channel Islands, much rain at Berlin and a little at the Scaw.

SEA — Slight or smooth on all our coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change, beyond a tendency to an increase in the height of the day temperatures.

FORECASTS

for the 24 hours ending at NOON on 23rd JUNE *1889.*

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	NW. to N. winds, light; fine.	6 SCOTLAND WEST 7 ENGLAND N.W.	N. and variable airs; fine, hazy.
3 ENGLAND EAST	Same as No 5	8 ENGLAND S.W	Same as No 5.
4 MIDLAND COUNTIES	Same as Nos 0 to 2.	9 IRELAND NORTH 10 IRELAND SOUTH	Light and variable airs; fine, hazy.
5 ENGLAND SOUTH	NE. breezes, light or moderate; very fine.	WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.	Wea.	Sea.		Bar.	Dry.	Wet.	Wind.	Wea.	Sea.
Skudesnaes ...	29.96	63	57	WSW 4	cm	3	Holyhead ...	30.08	70	61	ENE 3	b	3
Sumburgh Head	30.13	57	53	NE 2	bc	3	Valencia	30.09	68	62	NW 3	cm	3
Stornoway ...	30.12	64	60	SW 2	b	2	Scilly	30.03	63	60	E 2	om	3
Aberdeen ...	30.16	56	53	E 2	bc	2	Jersey	29.98	62	60	NE 4	o	3
Shields	30.14	57	54	E 2	c	3	Dungeness ...	30.01	66	61	NE 4	b	3
Ardrossan ...	30.10	74	62	WNW 2	b	1	London	30.04	71	62	SSE 1	bc	*
Malin Head ...	30.09	64	59	ESE 3	b	1	Yarmouth ...	30.10	57	56	N 3	cf	3
Mullaghmore ...	30.10	65	61	WNW 4	om	2	Rochefort ...	30.04	69	64	W 4	c	2
Belmullet ...	30.14	61	59	N 3	of	*							

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure varied from between 30·1 ins: and 30·2 ins: over the British Islands and Norway; and from between 30·0 ins: and 30·1 ins: over Spain to less than 30·0 ins: over Central France to less than 29·8 ins: over Austria, Poland, the Baltic Provinces and the east and north of Russia and to less than 29·7 ins: in two minima, — one lying inland near Riga and the other near Archangel. The wind was consequently moderate from between N. and NW. over the Baltic, Sweden and the eastern shores of the North Sea, NW^{ly} to W^{ly} over Germany, and light S^{ly} over Central Russia. Over the more western countries it was light and variable in most places, but N^{ly} to NE^{ly} over England, NW^{ly} to W^{ly} over Spain, the south of France and Northern Italy. The weather was fair over the United Kingdom and neighbourhood, but dull and misty in places. In other countries it varied a good deal and was unsettled, with rain in a few localities. Thunderstorms and rain had again been very prevalent over France, Austria, Poland, and some parts of Germany on the previous day. Temperature had fallen over Finland, Scandinavia, Austria and Spain, changed little elsewhere. The highest morning values were 77° at Odessa, 76° at Brindisi, 75° at La Calle, Cagliari, Home Lesina, and Constantinople, 74° at Palermo, 73° at Algiers, Nicolaieff and Kharkov, 72° at Oran and Barcelona, 71° at Lisbon and Hermanstadt. The lowest were 49° at Bodo, 52° at Leith, 53° at Haparanda, Wick and Nairn, 54° at Christiansund and Shields, 55° at Aberdeen, Loughborough, and Valentiaa, 56° at Kudemaes, Oxford, and Yarmouth.

During the day the sky had an unsettled appearance over the British Islands and thunderstorms occurred over the Channel Islands, France and Germany. In the British Islands, however, the weather remained fair and temperature rose to between 70° and 78° in the afternoon.

General Remarks on the Weather over Europe for 24 hours ending at 8 am on June 20th

The reports for Wednesday morning showed that pressure varied from between 30·2 ins: and 30·3 ins: over Norway and the northern parts of Great Britain; and from 30·0 ins: and more over the Netherlands, Germany, Austria, and Italy to between 29·8 ins: and 29·0 ins: over Algeria, and also in a small but decreasing depression over the Baltic and to less than 30·0 ins: in a shallow but irregularly formed depression which covered the Spanish Peninsula and the west of France, and was apparently spreading northwards towards England. The wind was consequently chiefly NE^{ly} in our Islands and blew strongly in the Channel — it was NE^{ly} to NW^{ly} on the eastern shores of the North Sea, and very variable and light elsewhere. The weather was fair over the greater part of the British Isles and Norway, as well as in the east of France, Central, and Southeastern Europe, cloudy, unsettled, and in places rainy, over Spain, the west and northwest of France, and the southern and eastern shores of the Baltic. Temperature was below 60° over the Channel, Great Britain, the North Sea and Scandinavia, above 60° elsewhere, but did not exceed 70° except at several of the Mediterranean stations and in the S. of Russia. The highest morning values were 79° at La Calle, 77° at Constantinople and Trieste, 76° at Sfax, Cagliari, and Odessa, 74° at Sanguinaire and Brindisi, 71° at Malta, Palermo and Lesina, and 71° at Barcelona; the lowest were 53° at Sumburgh Head, and Liverpool, 54° at Bodo, Ulsabog and Donaghadee, 55° at Tarifa and Spurn Hd. and 56° at Wick, Shields and Yarmouth.

Later on a good deal of rain fell in the southwest of England, the Channel Islands, the west and south of France, the south of Sweden and the Sound, and severe thunderstorms occurred at the French stations and at Jersey.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 23rd JUNE 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·02	54	SW	2	b	30·00	− ·11	60	51	+ 6	SW	2	b	*	66	43	—
	Hernösand ...	30·09	54	2	0	b	30·06	− ·04	57	51	0	E	2	b	*	70	45	—
	Stockholm ...	30·02	52	N	4	b	30·01	+ ·06	57	48	+ 2	NNW	2	b	*	63	45	—
	Wisby	29·99	48	NNE	4	b	30·00	+ ·11	51	48	+ 1	NNW	4	b	*	59	46	—
	Bodö	30·01	53	2	0	b	30·08	− ·05	49	46	− 1	WSW	2	o	1	54	43	—
	Christiansund...	30·06	57	N	2	b	30·10	?	55	50	− 1	NNE	2	o	2	66	52	—
	Skudesnaes ...	30·09	61	WNW	2	c	30·08	+ ·07	58	55	− 1	2	0	m	1	63	54	—
	Christiania Fjord (Færder)	29·98	66	WSW	2	b	30·06	+ ·02	65	55	+ 5	SSW	3	b	1	66	60	—
	Skagen (The Scaw)	29·98	64	NE	2	b	30·05	+ ·07	65	53	+ 3	E	2	b	1	73	59	—
	Fanö	29·97	54	NW	1	b	30·00	+ ·07	66	59	+ 6	NE	2	b	*	66	50	—
BRITISH ISLANDS.	Sumburgh Head	30·16	53	NNW	3	bc	30·18	+ ·04	53	50	0	NE	1	o	3	56	49	—
	Stornoway ..	30·23	54	NE	3	o	30·14	− ·05	56	52	+ 3	E	3	b	3	58	47	—
	Wick	30·21	54	N	3	o	30·18	+ ·06	52	51	− 7	E	1	o	1	60	38	0·02
	Nairn	30·18	60	E	2	c	30·16	+ ·04	53	52	− 8	E	1	m	1	70	52	—
	Aberdeen... ...	30·19	57	NW	3	o	30·19	+ ·06	52	50	− 8	NE	1	og	2	68	50	—
	Leith ...	30·16	59	E	2	b	30·17	+ ·05	53	51	− 9	E	2	o	*	75	51	—
	Shields	30·18	58	N	2	c	30·16	+ ·05	55	52	+ 2	N	3	c	3	60	51	—
	Spurn Head ...	30·09	57	NNE	3	c	30·09	− ·01	59	56	+ 4	NNE	5	c	4	61	54	—
	York	30·10	67	NNW	2	b	30·14	+ ·04	59	55	+ 1	NE	2	c	*	71	52	—
	Loughborough	30·07	73	N	1	c	30·12	− ·01	56	53	0	NE	3	o	*	79	51	—
	Ardrossan ...	30·10	69	NW	3	b	30·14	+ ·02	58	55	− 4	NE	2	om	1	68	54	—
	Malin Head ...	30·21	65	NNW	3	o	30·12	− ·08	55	53	0	SSE	1	o	1	56	53	—
	Mullaghmore ...	30·20	59	NNW	4	o	30·12	− ·08	54	53	− 3	SE	2	m	2	60	53	—
	Belmullet ...	30·22	59	NE	3	bc	30·10	− ·11	58	56	+ 1	E	2	o	*	60	54	—
	Donaghadee ...	30·15	58	NNE	4	b	30·16	− ·01	56	55	− 2	NE	2	m	0	62	55	—
	Barrow-in-Furness	30·09	63	NW	3	o	30·13	+ ·03	55	53	− 7	E	2	bc	*	69	52	0·10
	Liverpool (Bidston)	30·11	63	NNW	1	c	30·14	+ ·01	56	50	− 8	ESE	2	bc	3	70	50	—
	Holyhead ...	30·12	57	NNW	2	b	30·09	− ·05	61	56	− 3	2	0	bmr	0	67	54	—
	Parsonstown ...	30·13	70	2	0	r	30·10	− ·08	55	55	− 2	2	0	o	*	75	53	0·21
	Valencia	30·15	68	NW	2	b	30·07	− ·10	65	62	+ 3	2	0	bm	0	70	54	—
	Roche's Point...	30·14	69	2	0	b	30·08	− ·05	64	60	+ 1	N	1	bm	2	71	55	—
	Pembroke ...	30·09	62	NE	2	b	30·07	− ·05	62	60	− 2	ESE	2	m	1	73	60	—
	Scilly	30·08	64	NNE	4	c	30·04	− ·04	61	60	− 5	NNE	3	c	3	67	57	—
	Prawle Point ...	30·08	68	WSW	2	b	30·08	+ ·01	56	55	− 13	ENE	3	og	2	70	55	0·02
	Jersey	30·05	65	NE	1	b	30·06	+ ·03	64	61	+ 6	E	3	om	3	66	53	—
	Hurst Castle ...	30·07	66	WSW	3	b	30·07	− ·02	57	54	− 4	NE	3	c	2	73	53	—
	Dungeness ...	30·04	58	NE	4	bc	30·04	− ·01	58	53	− 1	NNE	3	cg	2	67	53	—
	London	30·04	72	NNE	2	b	30·07	− ·04	57	53	+ 2	NNE	2	o	*	77	51	—
	Oxford	30·07	67	NE	1	c	30·11	− ·01	55	51	+ 1	NE	3	o	*	77	50	—
	Cambridge ...	30·07	65	N	1	b	30·07	− ·04	57	55	+ 1	N	1	o	*	72	49	—
	Yarmouth ...	30·06	58	N	3	bc	30·03	− ·01	57	56	+ 4	N	3	cm	3	61	51	—
GERMANY.	Cuxhaven ...	29·96	64	NW	2	b	29·96	− ·02	64	61	+ 2	ENE	1	c	*	65	61	—
	Berlin	29·91	68	2	0	r	29·96	+ ·02	62	58	− 4	E	3	b	*	79	57	0·04
	Wiesbaden ...	*	*	*	*	*	29·95	− ·05	66	61	+ 2	NNW	2	c	*	79	59	0·04
	Munich	29·99	62	SW	3	c	29·97	− ·04	65	61	+ 1	SW	5	bc	*	72	54	—
FRANCE & NETHERLANDS.	The Helder ...	29·98	59	N	2	c	29·98	− ·06	61	55	+ 3	NNE	1	c	1	61	57	—
	Brussels	*	*	*	*	*	29·99	− ·03	58	54	− 5	WNW	2	c	*	76	61	—
	Cape Gris Nez...	?	55	NE	4	m	?	?	56	53	+ 2	NNE	4	c	4	61	52	—
	Paris	29·97	73	N	3	bc	30·04	+ ·05	55	51	− 8	N	4	b	*	82	51	—
	Brest	30·06	64	ENE	3	o	?	?	57	55	− 4	SE	1	m	2	70	54	—
	Lorient	30·00	62	W	2	c	30·07	+ ·07	58	56	− 2	NNE	1	f	2	64	57	0·35
	Rochefort ...	30·08	65	WNW	4	o	30·08	+ ·01	64	63	0	WNW	4	c	2	70	57	—
	Belfort	29·95	65	NW	1	o	29·94	− ·03	65	61	0	W	1	b	*	?	59	0·20
	Lyons	29·96	68	W	1	b	29·98	− ·03	64	61	0	W	1	o	*	74	57	0·32
	Nice...	29·91	65	SW	4	c	29·89	− ·05	68	63	0	2	0	b	0	75	57	0·04
	Perpignan ...	29·99	70	NW	1	o	30·01	+ ·01	69	62	+ 8	W	3	bc	*	79	61	0·32
	Biarritz	30·08	67	W	3	c	30·08	+ ·05	62	60	− 1	WSW	2	c	1	70	59	—
PENINSULA.	Corunna	*	*	*	*	*	30·12	+ ·04	62	61	+ 2	WSW	1	f	2	63	58	0·04
	Lisbon	30·18	61	NW	4	c	30·13	− ·05	61	58	+ 1	N	3	o	2	68	59	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Sunday, 23rd June. 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

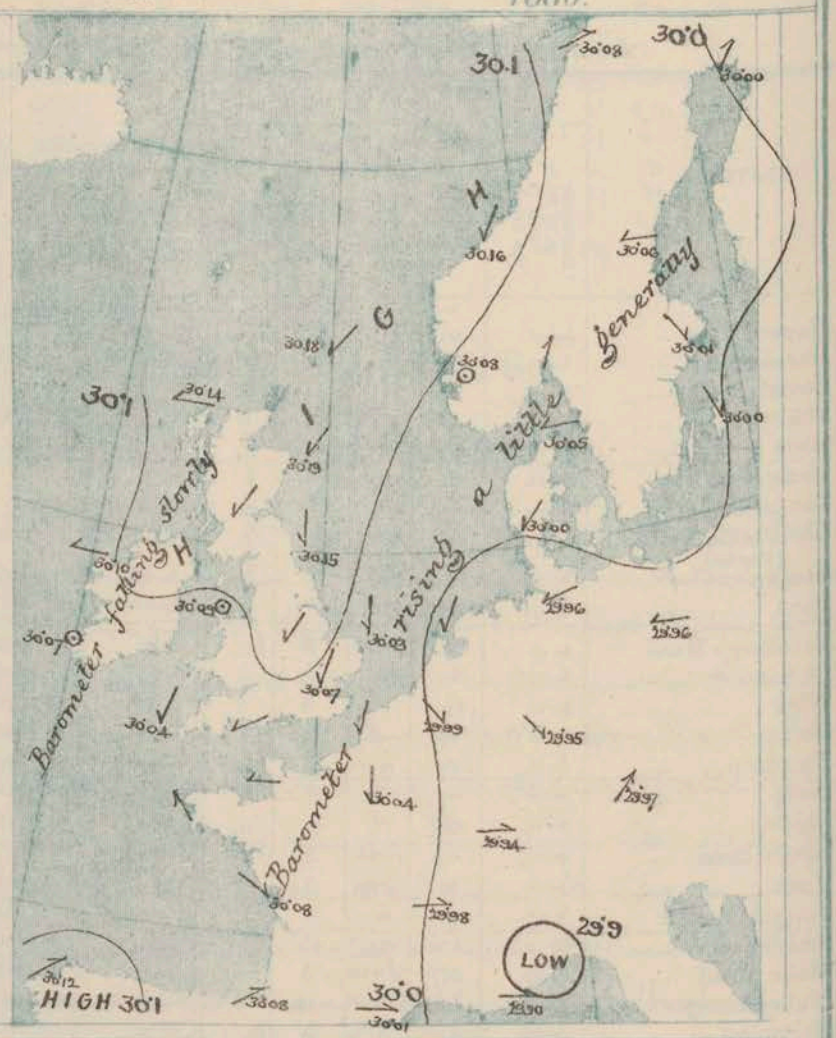
Barometer —— *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words*

Wind —— *Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force thus —*

⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance —— *where considerable, is shewn thus.*

= Rough. = High.



MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June.
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963

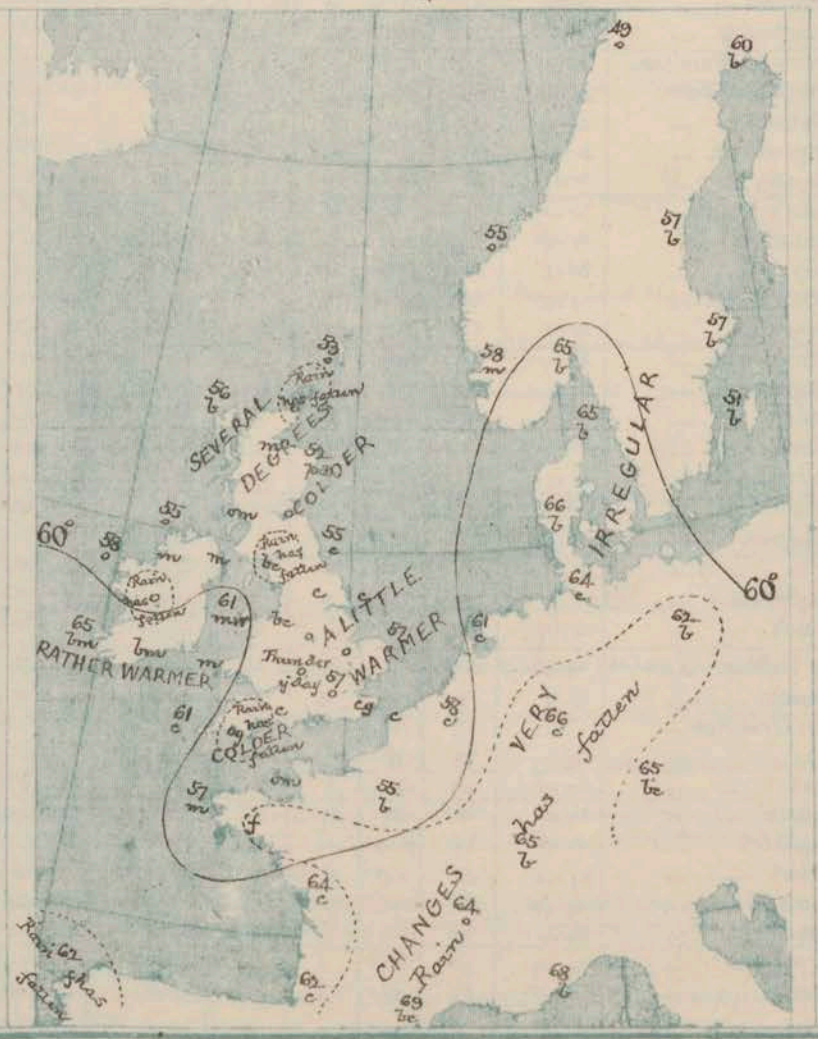
TEMPERATURE, & WEATHER at 8 A.M.,

with RAINFALL in PAST 24 HOURS.

Temperature —— *Isotherms are drawn for each 10° Changes since previous morning are stated in words*

Weather *is shown by Letters of the Beaufort Scale.*

Rainfall *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more, are quoted in figures.*



MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June.

STATIONS.	TEMPERATURE. Daily Max	Daily Min	at 8 a.m. Dry	Wet	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·0	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	66·2	51·4	56·9	54·1	2·02

NOTE – The Temperature means are for the 15 years 1871 – 85, the Rainfall means are mainly those for the 20 years 1866-85

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·1 in. and upwards, in a large area lying over the west of Norway and all the more northern parts of the United Kingdom and also in another area lying over Portugal.
Lowest, 29·9 in. and less, in a small depression lying over the Gulf of Genoa.
Gradients slight. Barometer rising in France and the eastern parts of Great Britain, but falling in most other localities.

TEMPERATURE — Highest, 69° at Perpignan, 68° at Nice, 66° at Tavö and Wiesbaden, and 65° at Tarnder, Skagen, Munich and Belfast.
Lowest, 49° at Bodo, 51° at Wick and Aberdeen, 53° at Lerwick, Mt. Nairn and Leith, and 54° at Mullaghmore.
The highest maxima registered in our Islands yesterday were 79° at Loughborough and 77° at York, Oxford and in London.

WIND — Light from the NE. and over the greater part of the United Kingdom, but NW. or W. over the Netherlands and N. France.
Variable at the Scandinavian stations; fresh SW. at Munich.

WEATHER — Fair generally, but dull over the eastern parts of Great Britain and the west of Norway, with drizzling rain at Aberdeen.
Mist is reported at several of our western stations and fog at Lorient.
Rain fell yesterday at some of our eastern stations and thunderstorms occurred in France.

SEA — Moderate at Spurn Head and C. Gris Nez, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

for the 24 hours ending at NOON on 24th JUNE. *1889.*

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N. W.	
2 ENGLAND N.E.		8 ENGLAND S. W	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.		Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesnaes ...	30·06	63	58	WNW	6	b	3	Holyhead ...	30·14	61	58	NNW	2	b	1
Sumburgh Head	30·13	54	52	NNW	4	b	4	Valencia	30·16	70	64	N	2	bm	2
Stornoway ...	30·22	56	54	NE	4	o	3	Scilly	30·08	63	61	N	4	b	3
Aberdeen ...	30·16	66	57	NNW	3	b	3	Jersey	30·05	64	61	ENE	2	c	2
Shields	30·12	59	55	N	3	c	3	Dungeness ...	30·05	62	58	E	4	b	2
Ardrossan ...	30·11	68	63	NW	4	b	2	London	30·06	64	60	NE	1	bc	*
Malin Head ...	30·22	56	54	NNW	2	o	2	Yarmouth ...	30·08	60	56	NNE	4	b	4
Mullaghmore ...	30·21	60	57	N	5	m	3	Rochefort ...	30·10	69	64	WNW	3	o	2
Belmullet ...	30·25	57	54	NNW	3	o	*								

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure varied from between 30·1 ins: and 30·2 ins: over Lapland, the north of Norway, the greater part of the British Isles, the southwestern half of Spain and Western Algeria, and from 30·0 ins: and more over Italy, to about 29·6 ins: in a rather large depression lying between St Petersburg and Moscow, and to less than 30·0 ins: in a shallow system lying over the northeast of France and Western Germany, as well as over the northern and central parts of the Mediterranean. The wind was consequently NE^{n} to N^{n} over Finland, the Baltic and Scandinavia (strong in the Gulf of Finland) N^{n} over the British Isles, NE^{n} in the English Channel; SW^{n} over Southwestern Europe, Germany and Poland, very variable elsewhere. The weather (after being showery and thundery in many parts of the Continent on the previous night) was fair as a whole, but dull in several places, foggy or hazy in some, and rainy at Brest, Perpignan and Barcelona. Temperature was changing irregularly, and was low over Northern Europe; it was however much above 70° over Southeastern Europe and at many of the Mediterranean stations and exceeded 80° at Cagliari. The highest morning values were 81° at Cagliari, 78° at Constantinople, 77° at Brindisi, 76° at Tunis, 75° at Sfax, Malta, and Nicolaieff, 74° at Kharkov, Lesina, and Rome, 73° at Odessa, Palermo, and Lafolle, and 72° at Oran and Pesaro; the lowest were 43° at Archangel, 48° at St Petersburg, 50° at Bodö, 53° at Kuopio, Sumburgh Hd, Stornoway, and Yarmouth, and 54° at Haparanda and Oxford.

Later on some rain fell at Parsonstown and a good deal in the southern parts of France, and in some other part of the Continent. Over the British Isles generally, however, the weather continued fine.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Monday 24TH JUNE 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R.H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29·93	53	SW	2	b	29·96	— ·04	59	49	— 1	N	4	b	*	61	43	—
	Hernösand ...	29·96	59	L	0	b	30·01	— ·05	60	52	+ 3	NNE	4	b	*	70	43	—
	Stockholm ...	29·97	55	SSE	2	b	29·95	— ·06	64	53	+ 4	W	2	b	*	70	43	—
	Wisby	29·99	53	NE	4	b	29·98	— ·02	53	49	+ 2	NNW	2	b	*	61	43	—
	Bodö	30·15	50	W	2	o	30·17	+ ·09	57	50	+ 2	W	4	o	2	51	46	—
	Christiansund...	30·13	57	NNE	4	b	30·09	— ·07	56	51	+ 1	NE	5	b	3	59	48	—
	Skudesnaes ...	30·06	60	W	4	b	30·06	— ·02	59	56	+ 1	NW	4	c	2	68	52	—
	Christiania Fjord (Foerder)	29·97	64	WSW	5	b	29·99	— ·07	62	55	— 3	N	2	b	1	66	59	—
	Skagen (The Scaw)	30·00	61	NW	2	b	29·99	— ·06	67	59	+ 2	WNW	3	bc	2	73	57	—
	Fanö	30·01	63	E	4	b	30·04	+ ·04	67	61	+ 1	S	1	b	*	73	54	—
BRITISH ISLANDS.	Sumburgh Head	30·15	54	NE	1	o	30·12	— ·06	53	50	0	L	0	o	2	55	51	—
	Stornoway ..	30·04	60	NE	2	c	30·05	— ·09	59	57	+ 3	L	0	bc	2	60	50	—
	Wick	30·12	53	S	2	o	30·11	— ·07	53	51	+ 1	SE	1	o	1	58	50	—
	Nairn	30·07	60	E	2	bc	30·08	— ·08	55	54	+ 2	E	1	om	1	61	53	—
	Aberdeen... ...	30·14	53	ESE	1	o	30·13	— ·06	52	48	0	S	1	c	1	56	49	—
	Leith	30·11	56	E	2	b	30·10	— ·07	53	51	0	E	1	om	*	60	47	—
	Shields	30·09	59	E	2	b	30·09	— ·06	55	52	0	E	1	o	3	60	52	—
	Spurn Head ...	30·06	58	NNE	5	b	30·09	·00	54	51	— 5	NNE	3	o	3	61	53	—
	York	30·09	64	ENE	2	bm	30·11	— ·03	57	53	— 2	ENE	2	o	*	70	48	—
	Loughborough	30·07	67	NE	3	b	30·09	— ·03	55	52	— 1	N	3	om	*	71	51	—
	Ardrossan ...	30·06	63	NE	1	o	30·08	— ·06	58	55	0	NE	4	bm	2	65	48	—
	Malin Head ...	30·01	58	ESE	3	bm	30·01	— ·11	57	55	+ 2	SE	3	bm	2	60	55	—
	Mullaghmore ...	29·99	63	NNW	2	bm	30·01	— ·11	59	57	+ 5	E	2	m	2	67	53	—
	Belmullet ...	29·99	70	WSW	1	b	30·01	— ·09	59	56	+ 1	ENE	1	o	*	71	54	—
	Donaghadee ...	30·07	59	S	1	b	30·08	— ·08	57	55	+ 1	SE	2	m	0	60	52	—
	Barrow-in-Furness	30·05	65	NNW	2	b	30·07	— ·06	54	52	— 1	NE	2	b	*	66	52	—
	Liverpool (Bidston)	30·05	63	SSE	1	b	30·09	— ·05	59	54	+ 3	ESE	2	b	3	68	50	—
	Holyhead ...	30·04	59	NE	3	b	30·04	— ·05	61	57	0	L	0	bw	0	67	52	—
	Parsonstown ...	29·98	73	L	0	c	30·11	+ ·01	58	57	+ 3	L	0	o	*	77	53	—
	Valencia	30·02	64	SW	2	bm	30·00	— ·07	61	58	— 4	NNW	1	cm	1	68	55	—
	Roche's Point...	30·03	66	ESE	1	b	29·99	— ·09	62	59	— 2	SE	2	om	2	68	55	—
	Pembroke ...	30·03	62	SE	1	bc	30·03	— ·04	60	58	— 2	SE	3	bc	1	63	53	—
	Scilly	30·00	59	SSE	4	f	29·99	— ·05	58	55	— 3	ESE	4	o	4	67	54	—
	Prawle Point ...	30·05	56	ENE	3	bc	30·02	— ·06	61	58	+ 5	ENE	3	b	2	61	49	—
	Jersey	30·02	62	NNE	2	cg	30·00	— ·06	64	59	0	E	3	bm	3	67	52	—
	Hurst Castle ...	30·03	64	W	2	bc	30·04	— ·03	57	56	0	ENE	2	c	2	66	52	—
	Dungeness ...	29·98	62	S	2	bc	30·00	— ·04	57	55	— 1	N	2	c	1	66	57	—
	London	30·01	68	NNE	2	bc	30·03	— ·04	59	55	+ 2	NE	1	og	*	70	54	—
	Oxford	30·04	60	NE	1	b	30·07	— ·04	55	54	0	NNE	1	od	*	69	50	—
	Cambridge ...	30·07	60	N	1	bc	30·03	— ·04	61	59	+ 4	N	1	o	*	68	58	—
	Yarmouth ...	30·02	61	N	5	bc	30·02	— ·06	58	57	+ 1	NE	3	c	3	64	55	—
GERMANY.	Cuxhaven ...	29·98	65	E	2	b	30·02	+ ·06	65	62	+ 1	SSE	2	b	*	70	64	—
	Berlin	29·97	64	ENE	1	b	30·02	+ ·06	59	53	— 3	ENE	4	b	*	75	52	—
	Wiesbaden ...	*	*	*	*	*	29·99	+ ·04	64	60	— 2	NE	2	o	*	73	59	0·08
	Munich	29·95	63	SW	2	bc	30·02	+ ·05	61	57	— 4	W	5	c	*	72	53	—
FRANCE & NETHERLANDS.	The Helder ...	29·99	62	NNE	2	c	29·99	+ ·01	66	62	+ 5	ENE	1	b	1	70	64	—
	Brussels	*	*	*	*	*	30·01	+ ·02	61	58	+ 3	WSW	2	b	*	69	54	—
	Cape Gris Nez...	?	60	NNE	2	bc	?	?	57	55	+ 1	N	1	o	0	66	55	—
	Paris	29·98	66	N	2	b	30·04	·00	59	57	+ 4	N	1	b	*	71	50	—
	Brest	30·08	58	L	0	m	?	?	56	56	— 1	L	0	f	3	64	52	—
	Lorient	30·02	63	W	3	b	30·00	— ·07	61	60	+ 3	L	0	bc	2	66	57	—
	Rochefort ...	30·06	66	NW	4	c	30·06	— ·02	65	63	+ 1	SE	2	bc	2	70	55	—
	Belfort	29·95	64	W	1	o	30·01	+ ·07	61	55	— 4	NW	1	bc	*	73	58	0·16
	Lyons	29·97	64	NNW	3	o	30·03	+ ·05	63	59	— 1	N	2	b	*	75	58	0·04
	Nice...	29·85	72	SW	3	b	29·90	+ ·01	67	64	— 1	L	0	b	2	75	59	—
	Perpignan ...	30·00	71	NW	1	o	30·03	+ ·02	68	63	— 1	SW	1	b	*	78	57	—
	Biarritz	30·06	69	NW	2	b	30·00	— ·08	63	61	+ 1	ESE	3	o	1	79	59	—
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30·06	63	NW	4	c	30·03	— ·10	61	58	0	WNW	4	c	2	68	59	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 1*

WEATHER CHARTS

for 8 a.m. on Monday, 24th June 1889.

BAROMETER, WIND & SEA

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevailing winds. They fly with the wind and their barbs and feathers refer to force, thus —

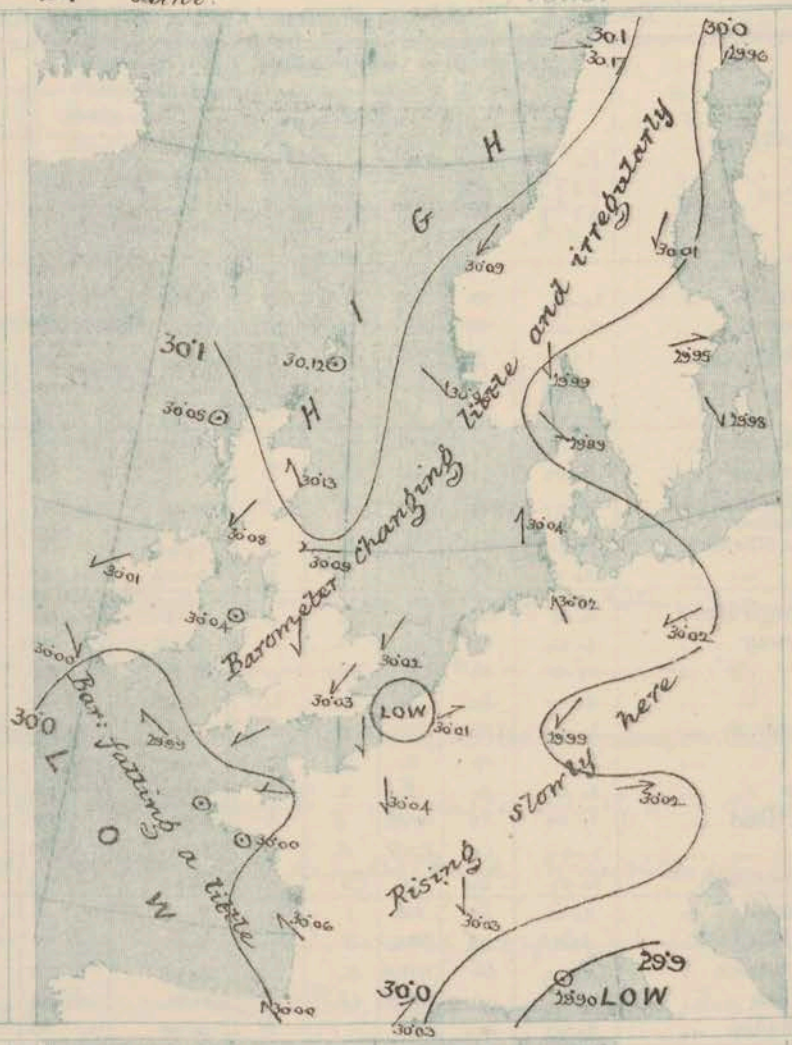
⊛⟶ = forces above 10, ⟶ = forces 8 to 10,
⟶ = forces 5 to 7, ⟶ = forces 1 to 4,
⊙ = dead calm.

Sea Disturbance — where considerable, is shewn thus.
= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885

STATIONS.	MEAN READINGS.
	ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10°. Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

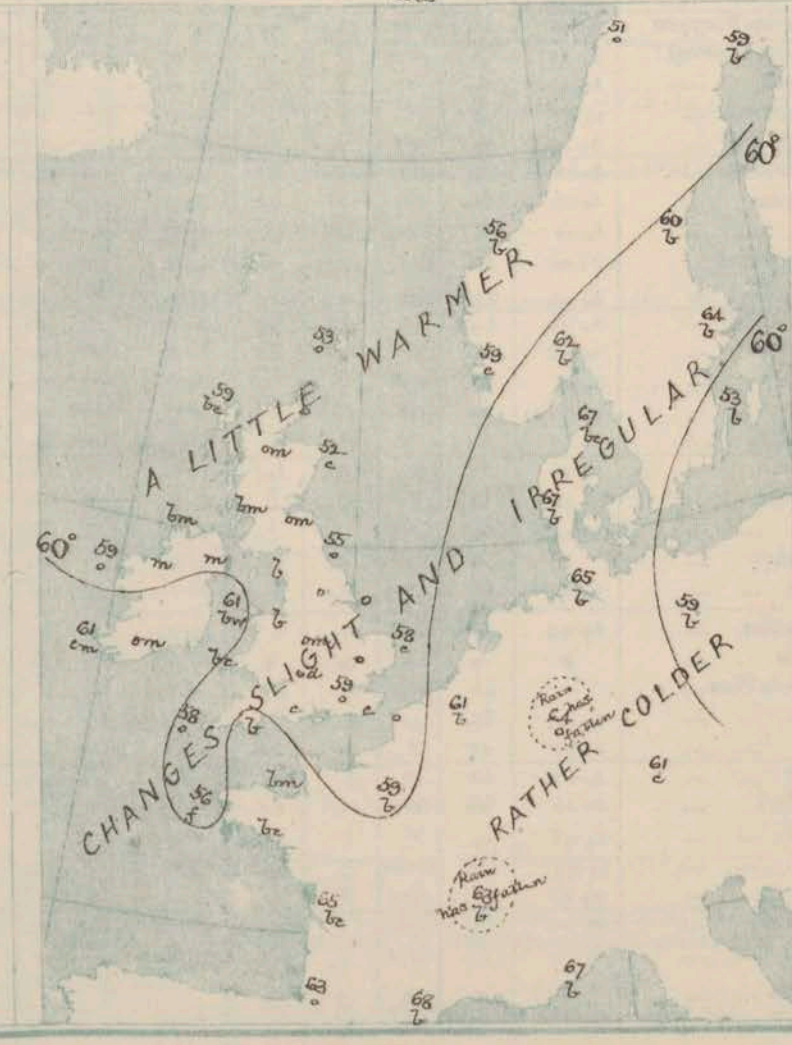
Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June.

STATIONS	TEMPERATURE. Daily Max	Daily Min	at 8 a.m. Dry	at 8 a.m. Wet	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	63·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85 the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30.1 ins. and upwards, in a large area extending Northwards from the east of Scotland and the northern parts of the North Sea. Lowest 29.90 ins. at Nice, 30 ins. and less, over northern and central Europe, as well as over the Bay of Biscay and our extreme S. coasts. Gradients slight. Barometer changing little and irregularly.

TEMPERATURE — Highest 68° at Perpignan, 67° at Skagen, Fano and Nice, 65° at Cuxhaven and Rochefort, and 64° at Stockholm, Wiesbaden and Jersey. Lowest 51° at Bodö, 52° at Aberdeen, 53° at Wisby, Sumburgh Head, Wick and La Coalle, and 54° at Barrow in Furness and Liverpool. The highest maxima registered over our Islands yesterday were 77° at Parsonstown, 71° at Loughborough and Belmullet, and 70° at York, and in London.

WIND — Light from the E.ward (SE to NE) over the greater part of our Islands, and also over northern Europe and the west of France. Moderate from the N.ward in Scandinavia, and light from the same quarter over central France.

WEATHER — Fine generally, but dull over the eastern parts of Great Britain, as well as on our extreme southwest coast. Mist prevails at several of our western and northern stations, and fog is reported at Brest.

SEA — Moderate at Scilly, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Conditions are gradually becoming less settled than of late, especially in the south and southwest, but there are at present no signs of any very decided change in the weather.

FORECASTS

for the 24 hours ending at NOON on 25TH JUNE 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Variable or SE.ly airs; fair generally.	6 SCOTLAND WEST 7 ENGLAND N. W.	Light breezes, chiefly E.ly; fair generally.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	Same as No. 5.	8 ENGLAND S. W	E.ly winds, light or moderate; fair to unsettled, and some rain.
5 ENGLAND SOUTH	NE.ly winds, light; fair generally.	9 IRELAND NORTH	Same as No. 6. and 7.
		10 IRELAND SOUTH	Same as No. 8.
		WARNINGS	None Issued.

Note.—The **South Cone**, *point downwards* (▽) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E. the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (△) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesnaes ...	30·87	67	59	W	4	b	2
Sumburgh Head							
Stornoway ...	30·08	57	55	E	3	c	3
Aberdeen ...							
Shields							
Ardrossan ...							
Malin Head ...	30·06	58	56	NE	2	b	1
Mullaghmore ...							
Belmullet ...	30·02	66	61	NNW	1	c	*

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Holyhead ...	30·06	67	57	ENE	3	bc	2
Valencia							
Scilly							
Jersey	30·04	66	61	NE	3	c	3
Dungeness ...	29·99	64	58	N	3	c	2
London							*
Yarmouth ...							
Rochefort ...	30·09	69	67	WNW	4	c	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure varied from 30·1in. and more over the northern half of the British Islands and the west of Norway, and also over Portugal and the southwest of Spain to about 29·7in. at Moscow, and to 29·9in. and less in small depressions lying – one near Lemberg and the other over Nice. The general drift of the wind over Western Europe was consequently N.ly, but its force being light, the wind was somewhat variable; over the Mediterranean and Southeastern Europe it was extremely variable. The weather had become overcast at the Russian stations and in many parts of our islands, and fog and haze prevailed on several parts of our own and the French coasts; heavy rain had again fallen in the southern parts of France since the previous night, but the conditions were improving; in many places the sky was clear and bright. Temperature exceeded 70° in the morning at many of the Mediterranean stations, at Constantinople and in the south of Russia, but was much lower than this over Northwestern and Northern Europe and the British Islands, and the changes were irregular.

The highest individual values were 77° at Constantinople, Brindisi and Cagliari; 75° at Sfax and Barcelona, 73° at Algiers and La Calle, 72° at Oporto, Palermo and Leghorn and 71° at Sanguinaire, Rome and Kharkov; the lowest were 43° at Archangel, 46° at St. Petersburgh, 49° at Bodö, 51° at Hvopis, 52° at Wick and Aberdeen, 53° at Sumburgh Head, Marin and Leith.

Later in the day temperature rose to a little above 70° in many parts of our islands to 71° at Paris, 75° at Berlin and 78° at Perpignan. The weather was fine generally, but cloudy at times.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD

FROM THE 16TH TO THE 22ND JUNE 1889.

The showery weather which prevailed over the western and northern parts of our islands on the 14th and 15th inst. gave way on the following day to fair dry weather which soon spread all over the country, in company with an anticyclonic system of little intensity.

Fine weather was general until Tuesday, but a large shallow depression which lay over Spain then began to move northwards across the Bay of Biscay and France. This brought thunderstorms and rain to many of the French stations and the disturbance subsequently spread northwards to Jersey, and on one day (Wednesday) affected the southwestern parts of England also; over the remainder of the Kingdom the weather remained fine. The depression then became smaller and although thundery showery weather continued over France and the Channel Islands, and ultimately spread to Germany, the conditions over the United Kingdom continued dry – cloudy at times, but mostly clear. On Saturday some rain fell over Central Ireland and a very slight thunderstorm occurred at Oxford – but with these exceptions the weather continued fair.

Temperature has not been high but on several occasions the daily maxima exceeded 70°, and on one occasion reached 78° at Parsonstown.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Tuesday 25th JUNE *1889.*

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29·93	57	N	2	c	29·95	— ·01	57	50	— 2	N	4	c	*	68	45	—
	Hernösand ...	30·01	59	L	0	b	29·98	— ·03	62	56	+ 2	L	0	b	*	75	54	—
	Stockholm ...	29·96	59	N	2	b	29·97	+ ·02	63	52	— 1	N	4	b	*	72	46	—
	Wisby	29·99	55	SW	2	b	29·97	— ·01	55	53	+ 2	WNW	2	b	*	61	45	—
	Bodö	30·13	51	WNW	2	b	30·11	— ·06	53	48	+ 2	W	2	o	1	55	50	—
	Christiansund...	30·06	56	NNE	7	b	30·07	— ·02	55	51	— 1	NNE	7	b	3	61	55	—
	Skudesnaes ...	30·04	58	NW	6	b	30·03	— ·03	59	57	0	NW	6	m	3	63	52	—
	Christiania Fjord (Færder)	29·92	67	WSW	4	c	30·00	+ ·01	65	62	+ 3	ENE	3	c	1	72	62	—
	Skagen (The Scaw)	29·92	63	NW	3	b	29·99	·00	64	60	— 3	WNW	3	c	2	72	57	—
	Fanö	30·06	58	NW	1	b	30·09	+ ·05	64	57	— 3	W	1	b	*	72	50	—
	Sumburgh Head	30·12	54	L	0	o	30·13	+ ·01	54	51	+ 1	NE	1	o	2	56	47	—
	Stornoway ..	30·07	58	E	3	b	30·08	+ ·03	62	59	+ 3	S	2	b	2	64	42	—
	Wick	30·12	55	SE	1	o	30·14	+ ·03	57	54	+ 4	SE	2	o	1	57	48	—
	Nairn	30·05	60	E	2	b	30·11	+ ·03	55	54	0	L	0	o	1	61	53	—
	Aberdeen... ...	30·11	54	SE	2	b	30·15	+ ·02	52	50	0	SE	1	o	2	57	44	—
BRITISH ISLANDS.	Leith ...	30·10	56	E	1	b	30·14	+ ·04	55	53	+ 2	E	1	o	*	60	52	—
	Shields	30·09	60	E	2	b	30·14	+ ·05	57	54	+ 2	E	2	c	3	60	52	—
	Spurn Head ...	30·08	58	NE	3	c	30·10	+ ·01	56	55	+ 2	NE	3	cm	3	60	53	—
	York	30·08	64	E	1	b	30·14	+ ·03	59	56	+ 2	N	1	c	*	70	49	—
	Loughborough	30·05	67	ENE	2	c	30·12	+ ·03	54	54	— 1	ENE	1	ogmd	*	69	52	0·01
	Ardrossan ...	30·05	63	L	0	gm	30·12	+ ·04	59	57	+ 1	NE	1	cm	1	70	51	—
	Malin Head ...	30·01	67	S	1	bm	30·10	+ ·09	60	56	+ 3	NNE	1	bm	2	67	55	—
	Mullaghmore ...	30·02	64	NW	3	cm	30·09	+ ·05	63	57	+ 4	ESE	1	bmw	3	66	51	—
	Belmullet ...	30·06	59	NNE	1	o	30·09	+ ·08	62	60	+ 3	WSW	1	b	*	62	55	—
	Donaghadee ...	30·06	60	ENE	2	b	30·14	+ ·06	60	57	+ 3	NE	3	m	1	64	55	—
	Barrow-in-Furness	‡ 30·04	67	NW	2	b	‡ 30·09	+ ·02	57	55	+ 3	NE	2	b	*	68	54	—
	Liverpool (Bidston)	30·04	65	NNW	1	bc	30·11	+ ·02	60	55	+ 1	ESE	2	bcm	2	69	53	—
	Holyhead ...	30·04	61	W	1	bc	30·09	+ ·05	65	60	+ 4	L	0	b	0	70	55	—
	Parsonstown ...	29·99	67	L	0	c	30·11	·00	62	58	+ 4	L	0	b	*	71	53	? 0·16
	Valencia	30·00	65	NNW	2	bcm	30·11	+ ·11	64	60	+ 3	L	0	bcm	1	68	56	—
	Roche's Point...	30·02	62	SE	2	o	30·10	+ ·11	60	57	— 2	N	1	b	2	65	52	—
	Pembroke ...	30·02	62	N	2	bc	30·08	+ ·05	62	58	+ 2	E	1	b	0	64	57	—
	Scilly	29·96	59	E	4	cm	30·03	+ ·04	60	56	+ 2	ENE	1	cf	4	63	52	—
	Prawle Point ...	29·99	60	ENE	2	b	30·07	+ ·05	60	58	— 1	N	3	cm	2	63	49	—
	Jersey	29·96	68	NE	2	bm	30·01	+ ·01	68	63	+ 4	ENE	2	bm	2	71	58	—
	Hurst Castle ...	30·01	65	WSW	2	b	30·07	+ ·03	62	60	+ 6	NNE	3	m	1	69	55	—
	Dungeness ...	30·00	62	SSE	1	c	30·05	+ ·05	63	59	+ 6	ENE	2	bm	1	65	46	—
	London	30·00	65	E	1	bc	30·08	+ ·05	59	56	0	E	1	o	*	69	54	0·02
	Oxford	30·05	60	NE	2	a	30·10	+ ·03	60	57	+ 5	NE	2	bc	*	65	55	—
	Cambridge ...	30·03	62	N	1	bc	30·09	+ ·06	62	58	+ 1	N	1	b	*	67	53	—
	Yarmouth ...	30·03	61	N	3	c	30·07	+ ·05	60	58	+ 2	L	0	bc	2	63	56	—
GERMANY.	Cuxhaven ...	30·02	68	N	2	b	30·07	+ ·05	70	65	+ 5	SE	1	b	*	71	65	—
	Berlin	29·99	69	NNW	3	b	30·06	+ ·04	66	58	+ 7	NW	3	b	*	75	55	—
	Wiesbaden ...	*	*	*	*	*	30·08	+ ·09	64	58	0	E	1	b	*	73	55	—
	Munich	30·09	57	SW	4	b	30·13	+ ·11	61	57	0	E	2	b	*	66	48	0·04
FRANCE & NETHERLANDS.	The Helder ...	30·02	67	ENE	2	b	30·06	+ ·07	68	60	+ 2	E	1	b	1	73	63	—
	Brussels 9am	*	*	*	*	*	30·04	+ ·03	61	60	0	SW	1	o	*	73	58	—
	Cape Gris Nez...	?	58	NE	2	m	?	?	56	55	— 1	NE	3	m	2	66	52	—
	Paris	30·00	70	S	1	bc	30·04	·00	61	57	+ 2	NNE	2	b	*	75	52	—
	Brest	?	68	L	0	c	?	?	61	59	+ 5	NE	1	o	2	68	54	—
	Lorient	29·98	66	WSW	1	bc	30·00	·00	61	59	0	NE	1	o	2	68	59	—
	Rochefort ...	29·98	70	WNW	4	bc	29·97	— ·09	65	64	0	NW	4	r.	2	77	59	—
	Belfort	30·00	65	W	1	b	30·01	·00	59	56	— 2	NE	1	b	*	72	53	—
	Lyons	29·97	69	NNE	2	b	29·98	+ ·05	61	56	— 2	N	1	c	*	77	58	—
	Nice...	29·88	75	NW	1	b	29·97	+ ·07	70	66	+ 3	NE	4	bc	2	79	63	—
	Perpignan ...	29·93	72	E	1	o	29·91	— ·12	69	67	+ 1	L	0	c	*	80	61	—
	Biarritz																	
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30·02	62	?	3	c	29·97	— ·06	59	58	— 2	SSW	4	r	2	70	57	0·71

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Tuesday, 25th June. 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

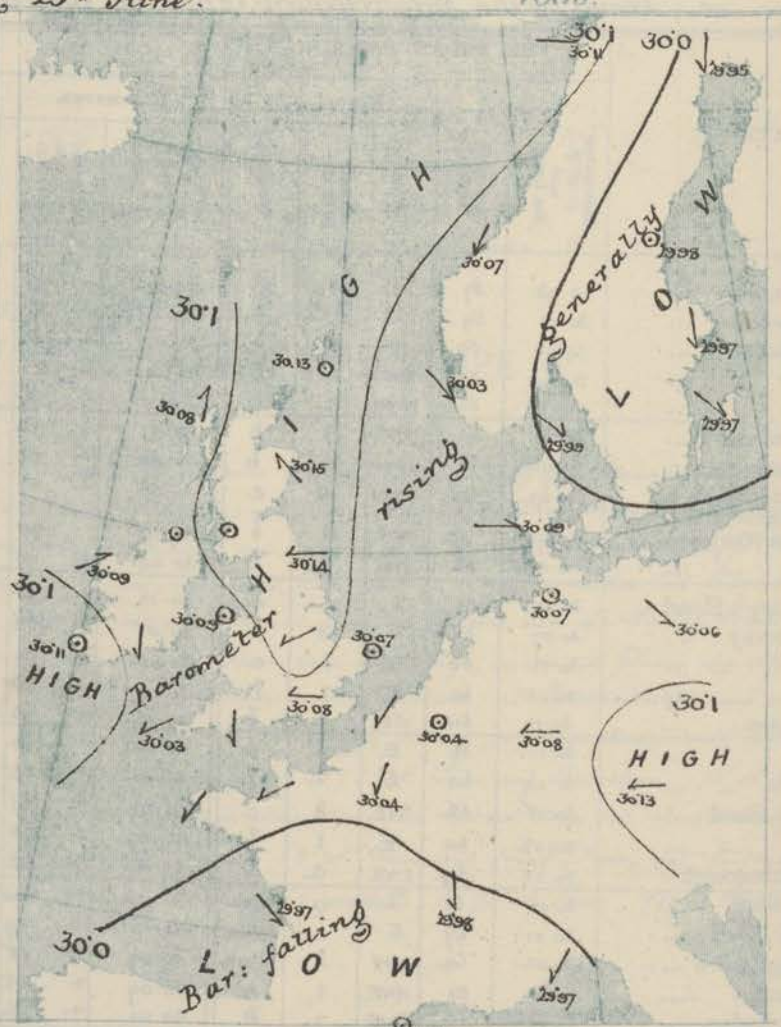
Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevailing winds. They fly with the wind and their barbs and feathers refer to force, thus —*

⟶ = forces above 10; ⟶ = forces 8 to 10;
⟶ = forces 5 to 7; ⟶ forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — *where considerable, is shewn thus.*

= Rough. = High.



MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June During the 15 Years 1871 — 1885.

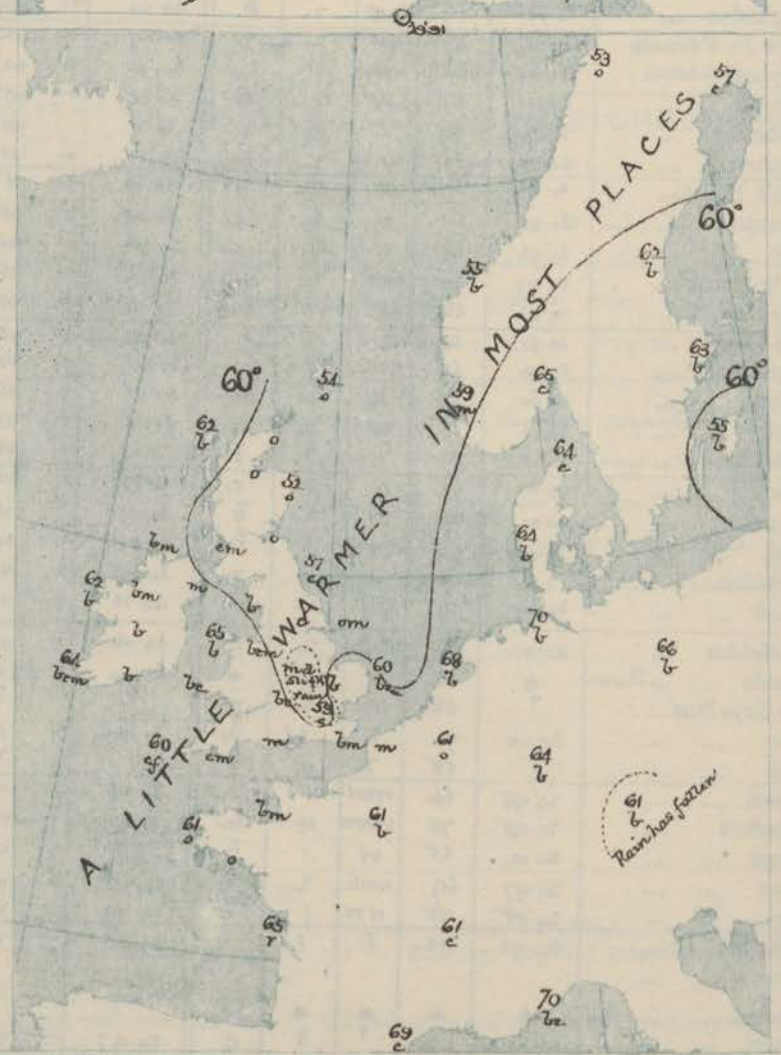
STATIONS	MEAN READINGS. in.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963

TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10°. Changes since previous morning are stated in words.*

Weather *is shown by Letters of the Beaufort Scale.*

Rainfall. *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.*



MEANS OF TEMPERATURE IN SHADE AND RAINFALL.

for the month of June

STATIONS	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	at 8 a.m. Wet	RAINFALL. (Inches)
Sumburgh Head	54·5	46·1	50·4	48·7	2·07
Stornoway	57·6	45·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	56·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·2	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	53·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	56·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	64·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85 (the Rainfall means are mainly those for the 20 years 1866-85

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·1 ins. and upwards, in a large area lying over the northern parts of our Islands, and also in smaller areas lying respectively over the southern parts of Ireland and Germany. Lowest 30·0 ins and less, in two large areas lying respectively over Sweden, and over France and Germany. Gradients slight. Barometer falling in Spain and the south of France, but rising in most other localities.

TEMPERATURE — Highest 70° at Buxhaven and Nice, 69° at Perpignan, 68° at Helder and Jersey, 66° at Berlin, and 65° at Foerder and Rochefort. Lowest 53° at Aberdeen, 53° at Bodö, 54° at Sumburgh Head and Loughborough, and 55° at Christiansund, Nairn & Keith. The highest maxima registered over our Islands yesterday were 71° at Parsonstown and Jersey, & 70° at York, Ardrossan & Holyhead.

WIND — Light from the NE^ly over the greater part of England and France, SE^ly in Scotland, variable in Ireland. Variable over Denmark, the Netherlands and North Germany. Moderate from the N^ly or NW^ly over Scandinavia, and from the SW^ly at Lisbon.

WEATHER — Fine generally, but dull over the eastern parts of Great Britain, and rainy at Rochefort and Lisbon. Mist prevails in many parts of the United Kingdom.

SEA — Moderate at Scilly, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are no signs of any material change in the weather – but some increase of temperature is probable over England.

FORECASTS

for the 24 hours ending at NOON on 26TH JUNE *1889.*

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Light breezes, chiefly; fair generally.	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W	NE^ly winds, light; fine generally.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	Same as No. 5.	9 IRELAND NORTH 10 IRELAND SOUTH	Light breezes, chiefly N^ly; fine generally
5 ENGLAND SOUTH	NE^ly winds, light; fine generally, warmer	WARNINGS	None Issued.

Note.—The **South Cone**, *point downwards* (▽) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E. the *North Cone* is hoisted in preference to the *South Cone*.

The **North Cone**, *point upwards* (△) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between N. and S.E. is likely to veer towards S. or S.W., the *South Cone* is hoisted in preference to the *North Cone*.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesmes ...	30·05	63	58	NW	6	b	3
Sumburgh Head	30·12	55	52	NE	1	c	2
Stornoway ...	30·06	64	61	E	2	b	2
Aberdeen ...	30·13	56	51	SE	2	b	2
Shields	30·10	57	54	E	2	o	3
Ardrossan ...	30·05	69	65	NE	2	c	1
Malin Head ...	30·02	63	59	E	1	b	1
Mullaghmore ...	30·01	65	62	W	3	om	3
Belmullet ...	30·05	59	56	NNE	1	o	*

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Holyhead ...	30·04	69	60	WNW	2	b	1
Valencia	30·00	68	63	SW	1	bcm	1
Scilly	29·98	61	58	ESE	4	bm	4
Jersey	29·99	67	61	SSE	2	bc	2
Dungeness ...	30·01	62	59	SW	1	bcm	1
London	30·02	67	57	E	2	c	*
Yarmouth ...	30·03	62	59	NNE	4	c	3
Rochefort ...	30·05	72	63	WNW	3	o	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was still highest 30·0 ins: to 30·1 ins: and more over the British Islands, the North Sea and Norway, and that it exceeded 30·0 ins: over the greater part of France and Spain as well as over the southeastern parts of the Mediterranean; it was lowest 29·8 ins: and less, over Russia, Southeastern Europe and North Italy, and was rather less in irregularly shaped areas lying over Germany, the Mediterranean, Algeria, the northeast of Spain, and off the extreme southwest of the British Isles. The wind reported though chiefly N^ly over England, Scandinavia, and the Baltic, and W^ly on the northern shores of the Mediterranean, was extremely variable as a whole, and except at a few stations, was very light in force. The weather was fine and bright over the Baltic and the greater part of Scandinavia, very variable (clear to overcast) elsewhere, with slight rain over some parts of England and Austria. Very heavy rain was reported to have fallen at Trieste, and smaller quantities at some French and German stations. Temperature was below 50° at Archangel, below 60° in Norway and over the greater part of the United Kingdom, but continued above 70° in the south of Russia, and at many stations on the shores of the Mediterranean. The highest morning values were 77° at Brindisi, 75° at Aumale, 74° at Lesina and Odessa, 73° at Algiers, Barcelona, Lyons and Rome, and 72° at La Calle, Tyr, Malta, and Nicolaieff. The lowest were 46° at Archangel, 51° at Bodo, 52° at St Petersburg, 53° at Sumburgh Head and Wick, 54° at Spurn Head, 53° at Nairn, Shields, and Oxford.

During the day very little change was observed except that the thermometer rose to 80° at Perpignan, 79° at Nice, and to 70° or more at several of our own stations.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Wednesday 26th JUNE. 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	29.98	56	NE	2	bc	30.07	+ .12	56	49	— 1	N	2	c	*	63	52	—
	Hernösand ...	30.01	59	2	0	b	30.08	+ .10	60	54	— 2	NE	2	bc	*	73	48	—
	Stockholm ...	29.94	64	2	0	b	29.97	.00	70	56	+ 7	NE	4	b	*	77	50	—
	Wisby	29.97	58	SW	2	b	29.96	— .01	61	57	+ 6	N	2	b	*	65	50	—
	Bodö	30.12	51	N	2	b	30.02	— .09	54	49	+ 1	NE	2	b	1	55	48	—
	Christiansund...	30.03	57	NNE	6	b	29.97	— .10	57	53	+ 2	2	0	m	3	70	50	—
	Skudesnaes ...	30.02	58	NW	6	b	30.05	+ .05	55	53	— 4	NW	4	0	2	64	54	—
	Christiania Fjord (Feerder)	29.94	64	WSW	5	m	29.97	— .02	63	60	— 2	SSW	3	0	2	68	63	—
	Skagen (The Scaw)	29.98	62	W	3	b	29.99	.00	63	58	— 1	W	3	c	2	68	57	—
	Fanö	30.08	53	NW	2	b	30.12	+ .08	58	54	— 6	NW	4	c	*	70	52	—
BRITISH ISLANDS.	Sumburgh Head	30.11	55	2	0	c	30.06	— .07	54	53	0	SSE	1	c	1	58	51	—
	Stornoway ..	30.07	63	SE	2	b	29.99	— .09	60	58	— 2	SW	3	bc	3	65	52	—
	Wick	30.11	55	SE	1	bc	30.04	— .10	66	63	+ 9	SE	1	b	1	66	45	—
	Nairn	30.07	59	E	1	bc	30.03	— .08	61	59	+ 6	2	0	m	1	64	45	—
	Aberdeen... ...	30.11	57	S	3	b	30.08	— .04	59	56	+ 7	E	1	bm	2	63	47	—
	Leith	30.09	60	E	1	b	30.09	— .05	62	55	+ 7	2	0	m	*	62	47	—
	Shields	30.10	59	ESE	3	b	30.10	— .04	61	58	+ 4	SW	1	m	2	61	53	—
	Spurn Head ...	30.10	56	NE	3	c	30.15	+ .05	55	54	— 1	S	1	f	3	60	53	—
	York	30.12	65	E	2	b	30.15	+ .01	58	56	— 1	E	1	b	*	75	48	—
	Loughborough	30.09	71	E	1	c	30.16	+ .04	65	60	+ 11	2	0	bm	*	76	48	0.01
	Ardrossan ...	30.07	66	2	0	b	30.09	— .03	65	63	+ 6	S	1	b	0	71	51	—
	Malin Head ...	30.06	63	ESE	3	bm	30.07	— .03	56	56	— 4	W	3	qf	2	65	54	—
	Mullaghmore ...	30.07	69	NW	1	b	30.10	+ .01	59	57	— 4	SSW	2	bm	2	70	55	—
	Belmullet ..	30.11	64	W	1	b	30.09	.00	59	55	— 3	WSW	4	o	*	67	55	—
	Donaghadee ...	30.10	64	SSW	2	b	30.11	— .03	62	58	+ 2	ESE	2	m	1	65	56	—
	Barrow-in-Furness	30.09	67	SSW	2	bc	30.13	+ .04	61	60	+ 4	E	3	b	*	70	56	—
	Liverpool (Bidston)	30.09	66	SE	2	bc	30.13	+ .02	68	59	+ 8	SE	2	b	2	69	56	—
	Holyhead ...	30.08	60	N	1	cpm	30.12	+ .03	61	58	— 4	SSW	3	bwm	2	70	53	—
	Parsonstown ...	30.08	70	2	0	c	30.13	+ .02	59	57	— 3	2	0	o	*	72	53	—
	Valencia	30.12	66	W	1	bm	30.16	+ .05	63	59	— 1	W	1	bm	1	68	51	—
	Roche's Point...	30.11	65	ESE	2	b	30.16	+ .06	56	55	— 4	N	2	f	2	68	55	—
	Pembroke ...	30.09	61	NW	2	m	30.16	+ .08	56	53	— 6	NNW	2	b	1	63	52	—
	Scilly	30.07	63	NNE	2	bm	30.11	+ .08	62	60	+ 2	NNE	4	bm	4	67	57	—
	Prawle Point ...	30.07	65	ENE	3	b	30.12	+ .12	69	64	+ 9	N	2	b	1	69	55	—
	Jersey	30.02	71	ENE	3	b	30.08	+ .07	63	60	0	ENE	3	bm	3	77	60	—
	Hurst Castle ...	30.07	68	SSW	2	m	30.11	+ .04	69	64	+ 6	NE	3	m	1	73	55	—
	Dungeness ...	30.05	61	ESE	3	b	30.06	+ .01	64	61	+ .	NNE	3	b	1	69	52	—
	London	30.08	70	ESE	1	bc	30.11	+ .03	65	59	+ 6	NE	1	bm	*	76	50	—
	Oxford	30.09	65	2	0	b	30.13	+ .03	65	58	+ 5	N	1	b	*	72	51	—
	Cambridge ...	30.11	69	N	1	b	30.13	+ .04	65	59	+ 3	N	1	b	*	75	48	—
	Yarmouth ...	30.10	64	NNE	2	b	30.12	+ .05	62	60	+ 2	NNE	2	b	2	65	56	—
GERMANY.	Cuxhaven ...	30.10	67	NNE	2	b	30.11	+ .04	66	63	— 4	NNE	2	b	*	70	65	—
	Berlin	30.04	73	E	1	bc	30.11	+ .05	69	59	+ 3	NNW	2	b	*	81	61	—
	Wiesbaden ...	*	*	*	*	*	30.09	+ .01	66	58	+ 2	2	0	b	*	77	55	—
	Munich	30.09	62	NE	2	b	30.14	+ .01	62	57	+ 1	NE	5	b	*	72	50	—
FRANCE & NETHERLANDS.	The Helder ...	30.07	66	NE	2	bc	30.11	+ .05	66	63	— 2	NE	2	b	3	72	64	—
	Brussels 9am	*	*	*	*	*	30.06	+ .02	71	63	+ 10	ESE	1	b	*	80	61	—
	Cape Gris Nez...	?	62	NE	3	bc	?	?	61	59	+ 5	NE	2	b	2	68	55	—
	Paris	30.00	74	NE	1	bc	30.03	— .01	64	61	+ 3	N	2	b	*	80	55	—
	Brest	?	71	NE	2	o	?	?	59	58	— 2	ENE	3	c	2	72	52	—
	Lorient	30.00	68	NNE	3	bc	30.03	+ .03	64	61	+ 3	E	3	c	4	73	61	—
	Rochefort ...	29.99	70	NW	2	c	29.97	.00	68	66	+ 3	NNE	2	bc	4	79	57	—
	Belfort	30.01	66	NE	1	b	30.02	+ .01	63	57	+ 4	NE	2	b	*	72	56	—
	Lyons	29.97	62	WSW	3	b	30.01	+ .03	61	60	0	SSW	1	c	*	79	56	0.32
	Nice...	29.94	64	NW	3	bc	29.99	+ .02	71	67	+ 1	ENE	1	b	1	75	61	—
	Perpignan ...	29.95	70	E	1	o	29.97	+ .06	67	66	— 2	E	2	c	*	77	64	—
	Biarritz	29.92	69	NE	2	o	29.95		64	63		SSE	1	o	3	75	61	0.32
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	29.96	58	SW	3	o	30.03	+ .06	59	55	— 2	W	1	o	?	61	54	0.28

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Wednesday, 26th June. 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevailent winds. They fly with the wind and their barbs and feathers refer to force thus —*

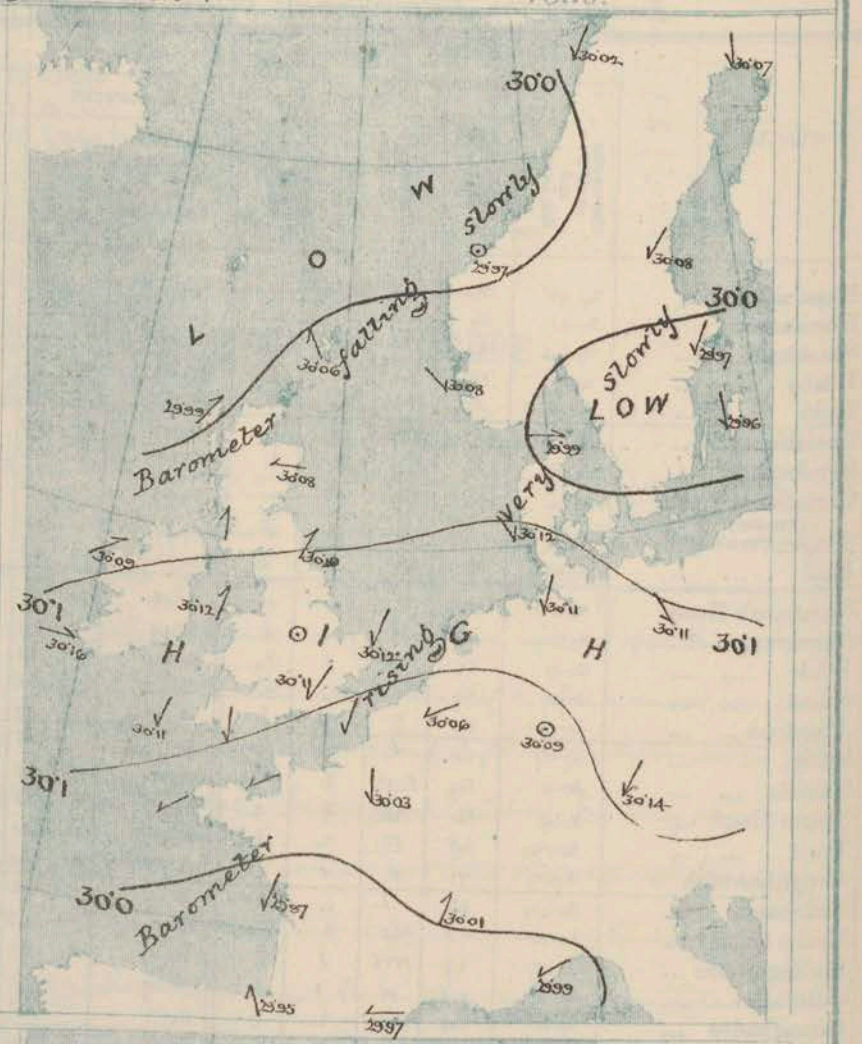
⟶ = forces above 10, ⟶ = forces 8 to 10.
⟶ = forces 5 to 7, ⟶ = forces 1 to 4.
⊙ = dead calm.

Sea Disturbance — *where considerable is shewn thus.*
= Rough = High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M.,

with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° changes since previous morning are stated in words.*

Weather *is shown by Letters of the Beaufort Scale.*

Rainfall. *A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·3in. or more, are quoted in figures.*

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

for the month of June

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	as 8 a.m. Dry	as 8 a.m. Wet	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·8	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85, the Rainfall means are mainly those for the 10 years 1866-85.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·1 ins. and upwards, in a long and broad band extending from Ireland across England & Holland to Germany. Lowest 30·0 ins. and less, in three large areas lying respectively over the north of Spain and the south of France, over the south of Sweden and to the north of our Islands. Gradients slight. Barometer falling in our extreme north and northwest coasts, and also in the west of Norway, but rising elsewhere.

TEMPERATURE — Highest 71° at Brussels and Nice, 70° at Stockholm, 69° at Prawle Point, Mersey Castle and Berlin, and 68° at Liverpool, Jersey and Rockport. Lowest 54° at Bodö and Sumburgh Head, 55° at Skudesnaes and Spurn Head, and 56° at Haparanda, Malin Hd, Rockt Pt and Pembroke. During yesterday the thermometer rose to 79° at York and Cambridge, 76° at Loughborough and in London, and 77° at Jersey.

WIND — Light from the SW.ly on our extreme northwest coasts, and from the S.ly in the northeast. Light from NE. over the Netherlands, France and the south of England. Moderate from NW in Denmark, North Germany and the south of Scandinavia.

WEATHER — Fine generally but foggy at some of the Irish stations, and also at Spurn Head. Thunderstorms occurred yesterday in the south of France.

SEA — Moderate in the Bay of Biscay, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change in the weather is likely at present, but the SW.ly winds which have appeared in the Northwest will probably extend somewhat.

FORECASTS

for the 24 hours ending at NOON on 27.th JUNE 1889.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S.ly and SW.ly winds, moderate, fair to dull and some rain.
1. SCOTLAND EAST	Light breezes, chiefly S.ly; fine, warm.
2 ENGLAND N.E.	
3 ENGLAND EAST	NE.ly to variable airs; fine, warm.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as No.s 1. and 2.
7 ENGLAND N.W.	
8 ENGLAND S.W	Same as No.s 3. to 5.
9 IRELAND NORTH	SW.ly winds, light or moderate; fine in East, but dull with some rain in West.
10 IRELAND SOUTH	
WARNINGS	None Issued.

Note.—The **South Cone**, *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesnaes ...	30·03	64	58	NW	6	b	3
Sumburgh Head	30·13	56	53	NE	1	c	2
Stornoway ...	30·08	65	61	S	2	b	2
Aberdeen ...	30·13	61	55	SE	3	b	2
Shields	30·13	59	55	E	3	b	2
Ardrossan ...	30·09	70	66	WNW	2	b	1
Malin Head ...	30·10	64	55	ESE	3	b	3
Mullaghmore ...	30·09	66	62	NW	1	bcm	3
Belmullet ...	30·11	64	61	W	1	bf	*

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Holyhead ...	30·08	63	57	NNE	3	bcm	2
Valencia	30·12	65	62	W	3	bm	3
Scilly	30·07	66	61	ESE	4	bm	5
Jersey	30·02	75	68	NE	3	b	3
Dungeness ...	30·05	62	61	ESE	1	b	1
London	30·07	74	61	ESE	1	b	*
Yarmouth ...	30·10	65	61	NNE	2	b	2
Rochefort ...	29·98	71	69	NW	3	o	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure varied from 30·1 ins. and more over the northern half of Great Britain and the northwest of Norway, and from 30·0 ins. and more over Algeria and the southern half of Spain to 29·7 ins. and less, over eastern Russia, and to 29·8 ins. and less, over the Black Sea. Very shallow local depressions were found over the Mediterranean, and in the neighbourhood of the Pyrenees, and a small secondary anticyclone near Vienna. The wind was light to moderate from the N.wd over Scandinavia, the Baltic and Poland, NW.ly in North Germany, and moderate from NE. on the northern shores of the Mediterranean; elsewhere it was very variable in direction and light in force. The weather was fine generally, but dull and hazy in places and rain & thunder had again occurred over Germany and the southern parts of France and Austria during the previous 24 hours. Temperature was not changing much, and was low over northwestern ~~Europe~~ and Central Europe generally. The highest morning readings were 82° at Cagliari and La Galle, 81° at Tunis, 77° at Brindisi & Constantinople, 76° at Barcelona and Palma, 75° at Malta, 74° at Sfax, 73° at Algiers and Lesina. The reports from the South of Russia are not in. The lowest were 51° at Archangel, 52° at Aberdeen, 53° at Bodö and St Petersburg, 54° at Sumburgh Head, 55° at Leith and Warsaw, 56° at Moscow and Spurn Head.

Fine weather continued to prevail over the British Islands all day (though the sky looked very showery-like at times in London) and temperature increased to between 70° and 76° at our inland stations.

Over Germany temperature rose to between 72° and 81°, and to between 72° and 80° at the French stations during the day.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Thursday 27th JUNE *1889.*

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·10	54	SW	2	bc	30·12	+ ·05	59	52	+ 3	S	2	bc	*	64	48	—
	Hernösand ...	30·07	59	Z	0	b	30·11	+ ·03	60	54	0	SE	2	b	*	72	52	—
	Stockholm ...	30·03	62	Z	0	b	30·04	+ ·07	68	59	— 2	SE	2	o	*	73	55	0·04
	Wisby	30·02	61	SE	4	b	30·04	+ ·08	64	60	+ 3	S	2	c	*	68	55	—
	Bodö	29·92	57	Z	0	b	30·01	— ·01	52	50	0	Z	0	o	0	57	50	—
	Christiansund...	30·03	56	Z	0	o	29·95	— ·02	58	54	+ 1	ESE	1	m	1	58	55	—
	Skudesnaes ...	30·03	55	NW	4	b	29·99	— ·09	57	54	+ 2	Z	0	b	0	61	48	—
	Christiania Fjord (Færder)	29·95	63	S	5	c	29·96	— ·01	61	57	— 2	S	4	o	3	64	59	—
	Skagen (The Scaw)	29·98	60	WSW	3	c	29·98	— ·01	60	57	— 3	SW	2	o	2	68	57	—
	Fanö	30·08	55	WNW	3	c	30·05	— ·07	60	55	+ 2	WNW	1	c	*	64	54	—
BRITISH ISLANDS.	Sumburgh Head	29·98	55	SSE	1	m	29·94	— ·12	56	55	+ 2	W	1	c	1	57	48	—
	Stornoway ..	29·94	60	W	5	bc	29·98	— ·01	56	53	— 4	W	5	c	4	62	50	0·01
	Wick	29·98	60	SE	1	bc	? 29·96	— ·08	59	56	— 7	Z	0	c	0	70	53	—
	Nairn	29·93	72	W	3	bc	29·99	— ·04	59	55	— 2	W	3	cm	1	79	55	—
	Aberdeen... ...	29·99	70	S	3	bm	30·02	— ·06	66	59	+ 7	ENE	1	bc	1	74	53	—
	Leith	29·99	73	Z	0	b	30·04	— ·05	63	57	+ 1	SW	1	c	*	80	57	—
	Shields	30·02	66	SSE	3	o	30·03	— ·07	64	59	+ 3	ENE	1	o	2	75	53	—
	Spurn Head ...	30·10	58	ESE	2	b	30·06	— ·09	62	58	+ 7	SSE	1	b	2	63	53	—
	York	30·08	73	SSE	2	b	30·06	— ·09	63	58	+ 5	WNW	1	b	*	79	54	—
	Loughborough	30·07	79	ESE	2	bc	30·08	— ·08	64	61	— 1	ENE	1	cm	*	82	55	—
	Ardrossan ...	30·03	69	WNW	1	c	30·06	— ·03	60	59	— 5	NW	1	owv	0	71	57	—
	Malin Head ...	30·03	60	WNW	3	bc	30·08	+ ·01	55	53	— 1	NW	2	op	2	64	53	—
	Mullaghmore ...	30·07	64	WSW	4	b	30·10	·00	57	52	— 2	WNW	4	c	2	66	54	0·05
	Belmullet ...	30·08	58	WNW	4	o	30·10	+ ·01	56	52	— 3	WNW	2	o	*	64	57	0·01
	Donaghadee ...	30·05	60	NE	3	bc	30·10	— ·01	62	59	0	NW	3	c	1	71	59	—
	Barrow-in-Furness	30·08	63	W	3	b	30·08	— ·05	60	57	— 1	NE	2	c	*	67	55	—
	Liverpool (Bidston)	30·09	65	WNW	1	bc	30·09	— ·04	61	57	— 7	W	3	c	3	73	58	—
	Holyhead ...	30·09	63	SW	1	b	30·09	— ·03	60	56	— 1	WNW	1	cumg	2	68	55	—
	Parsonstown ...	30·09	66	Z	0	bc	30·11	— ·02	57	55	— 2	NW	1	o	*	71	54	0·02
	Valencia	30·15	63	SW	2	bcm	30·16	·00	58	55	— 5	NW	1	o	1	66	53	0·02
	Roche's Point...	30·11	69	WSW	3	b	30·12	— ·04	60	56	+ 4	NW	1	c	2	71	55	—
	Pembroke ...	30·11	62	NW	3	bc	30·09	— ·07	59	58	+ 3	NNE	2	bcw	1	67	53	—
	Scilly	30·10	63	N	3	cm	30·11	·00	61	59	— 1	NW	3	c	4	66	58	—
	Prawle Point ...	30·07	69	NNW	3	c	30·06	— ·06	70	62	+ 1	NNW	2	b	0	75	58	—
	Jersey	30·03	70	NNW	3	bm	30·03	— ·05	67	61	— 1	NNW	3	bm	3	73	59	—
	Hurst Castle ...	30·04	71	WSW	2	bcm	30·04	— ·07	68	63	— 1	NNE	3	bc	0	80	57	—
	Dungeness ...	30·02	68	ENE	3	b	29·99	— ·07	67	62	+ 3	NE	3	c	2	74	56	—
	London	30·05	73	E	2	b	30·03	— ·08	67	60	+ 2	E	1	bm	*	79	57	—
	Oxford	30·06	69	NNE	1	b	30·06	— ·07	66	60	+ 1	NNE	1	b	*	78	59	—
	Cambridge ...	30·09	71	E	1	b	30·05	— ·08	67	62	+ 2	NNW	1	b	*	78	49	—
	Yarmouth ...	30·10	64	NE	3	b	30·05	— ·07	62	60	0	NE	2	b	2	65	57	—
GERMANY.	Cuxhaven ...	30·09	62	NNE	2	b	30·07	— ·04	62	59	— 4	NE	2	b	*	67	61	—
	Berlin	30·06	75	NW	3	b	30·04	— ·07	70	60	+ 1	SSW	2	b	*	84	63	—
	Wiesbaden ...	*	*	*	*	*	29·98	— ·11	71	63	+ 5	NE	2	o	*	81	64	—
	Munich	30·09	64	NE	2	b	30·00	— ·14	64	58	+ 2	NE	3	b	*	73	52	—
FRANCE & NETHERLANDS.	The Helder ...	30·07	65	NE	2	b	30·02	— ·09	66	62	0	NE	2	b	3	72	63	—
	Brussels	*	*	*	*	*	29·96	— ·10	64	61	— 7	E	2	o	*	53	60	—
	Cape Gris Nez...	?	63	NE	2	b	?	?	62	60	+ 1	NE	4	b	2	68	59	—
	Paris	29·97	68	S	2	o	29·94	— ·09	65	64	+ 1	Z	0	o	*	85	61	0·04
	Brest	30·11	70	NNE	3	b	?	?	60	58	+ 1	N	4	b	2	77	54	—
	Lorient	30·07	72	NE	4	b	30·03	·00	61	57	— 3	N	4	b	4	75	59	—
	Rochefort ...	29·99	68	NW	3	o	30·00	+ ·03	65	65	— 3	NNW	3	o	2	79	57	0·04
	Belfort	30·04	66	W	2	o	29·95	+ ·07	61	56	— 2	W	1	o	*	73	59	0·28
	Lyons	29·92	72	SE	1	o	29·98	+ ·03	59	57	— 2	NE	1	tl	*	81	60	0·32
	Nice...	29·94	74	ENE	5	c	29·93	— ·06	72	67	+ 1	E	1	bc	3	81	66	—
	Perpignan ...	29·94	70	E	2	o	29·92	— ·05	70	66	+ 3	Z	0	b	*	75	62	—
	Biarritz	29·98	68	WNW	3	o	30·02	+ ·07	65	63	+ 1	NW	3	c	2	72	63	0·67
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30·11	63	NW	4	o	30·18	+ ·15	62	59	+ 5	N	3	•	3	68	?	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Thursday, 27th June 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevailed winds. They fly with the wind and their barbs and feathers refer to force thus —

⟶ = forces above 10, ⟶ = forces 8 to 10;
⟶ = forces 5 to 7, ⟶ = forces 1 to 4;
⊙ = dead calm.

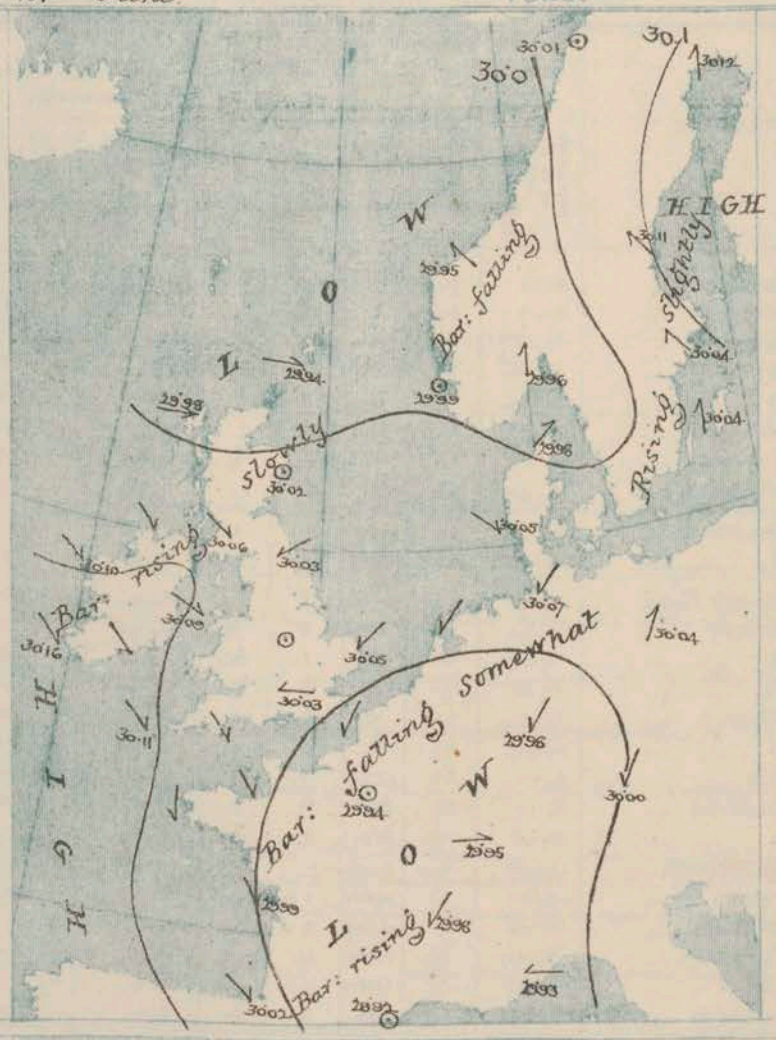
Sea Disturbance — where considerable, is shewn thus.

= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS.
	in.
Sumburgh Head	29 · 862
Stornoway	29 · 852
Wick	29 · 874
Nairn	29 · 880
Aberdeen	29 · 890
Leith	29 · 904
Shields	29 · 928
York	29 · 949
Loughborough	29 · 958
Ardrossan	29 · 909
Donaghadee	29 · 920
Holyhead	29 · 944
Liverpool	29 · 944
Parsonstown	29 · 952
Valencia	29 · 954
Roche's Point	29 · 952
Pembroke	29 · 952
Scilly	29 · 982
Jersey	29 · 994
Hurst Castle	29 · 981
Dover	29 · 971
LONDON	29 · 976
Oxford	29 · 964
Cambridge	29 · 967
Yarmouth	29 · 963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words

Weather is shown by Letters of the Beaufort Scale.

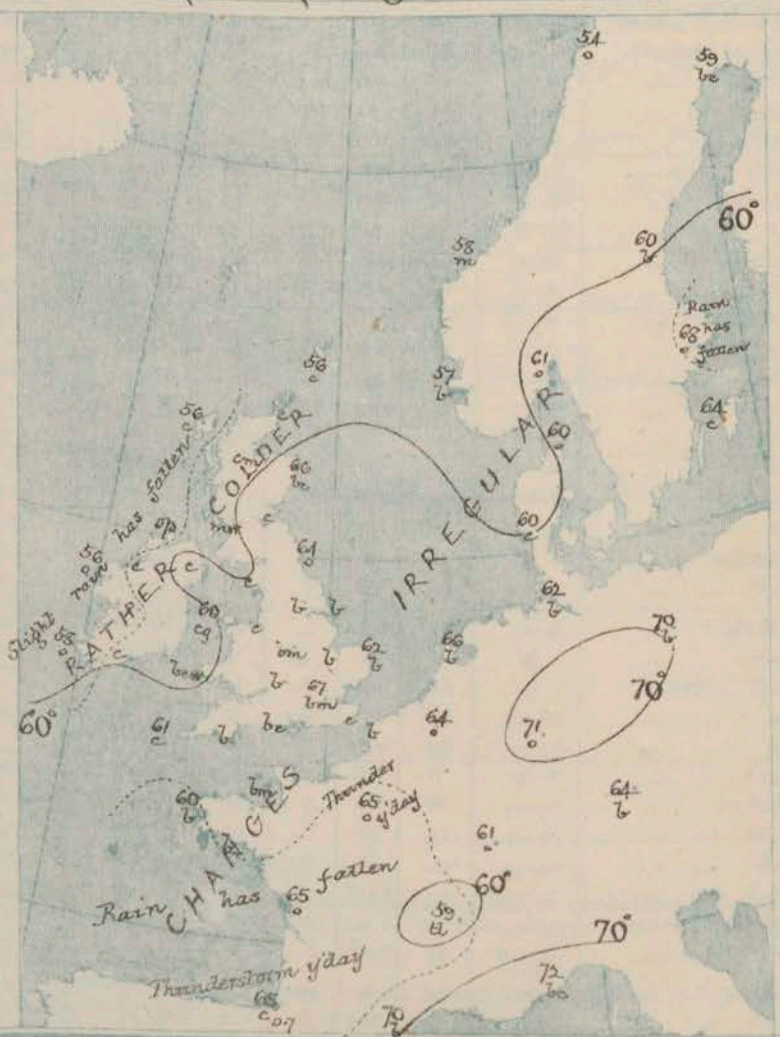
Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE, AND RAINFALL.

for the month of June

STATIONS	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches)
Sumburgh Head	54 · 3	46 · 1	50 · 4	48 · 7	2 · 07
Stornoway	57 · 6	48 · 0	53 · 3	51 · 0	2 · 99
Wick	58 · 8	45 · 7	53 · 1	50 · 4	1 · 75
Nairn	62 · 1	48 · 0	54 · 2	50 · 4	1 · 88
Aberdeen	61 · 3	47 · 5	54 · 7	50 · 9	1 · 88
Leith	64 · 5	48 · 1	56 · 0	52 · 5	1 · 84
Shields	60 · 2	49 · 1	54 · 9	51 · 9	1 · 82
York	66 · 2	48 · 3	56 · 1	52 · 7	2 · 45
Loughborough	68 · 7	49 · 0	58 · 1	54 · 1	2 · 43
Ardrossan	62 · 0	49 · 7	55 · 1	52 · 0	2 · 62
Donaghadee	60 · 9	48 · 9	55 · 0	52 · 8	2 · 04
Holyhead	61 · 7	51 · 6	55 · 6	53 · 1	2 · 10
Liverpool	63 · 6	50 · 9	56 · 6	52 · 6	1 · 96
Parsonstown	64 · 0	48 · 2	55 · 8	52 · 2	2 · 46
Valencia	61 · 7	50 · 7	56 · 8	53 · 8	3 · 42
Roche's Point	64 · 8	50 · 8	56 · 5	53 · 3	3 · 26
Pembroke	60 · 3	51 · 4	55 · 0	52 · 9	2 · 09
Scilly	61 · 1	53 · 0	57 · 2	55 · 0	1 · 94
Jersey	64 · 8	52 · 6	58 · 7	55 · 9	1 · 83
Hurst Castle	63 · 9	51 · 9	57 · 6	55 · 4	2 · 07
Dover	63 · 3	53 · 1	58 · 6	55 · 1	1 · 72
LONDON	69 · 3	50 · 6	59 · 2	54 · 8	2 · 12
Oxford	67 · 1	49 · 4	56 · 9	53 · 4	2 · 28
Cambridge	68 · 8	48 · 5	58 · 0	54 · 7	2 · 40
Yarmouth	62 · 2	51 · 4	56 · 9	54 · 1	2 · 02

NOTE – The Temperature means are for the 15 years 1871—85 the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·1 ins. and upwards, over the Gulf of Bothnia, and also in a large area the eastern edge of which extends from Ireland to Central Spain.
Lowest 29·0 ins. and less, over Norway and the North of Scotland, and also over France, Belgium and western Germany.
Gradient slight and irregular. Barometer falling slowly at our southeastern and many of the Continental stations, but rising elsewhere.

TEMPERATURE — Highest 72° at Nice, 71° at Wiesbaden, 70° at Berlin, Pravle Point and Perpignan, and 69° at Stockholm and Hurst Castle.
Lowest 54° at Bodö, 55° at Malin Head, 56° at Lerwick Head, Stornoway and Belmullet, and 57° at Aberdeen, Killaloe and Phoenix Park.
The highest maxima registered over our Islands yesterday were 82° at Loughborough, and 80° at Leith and Hurst Castle.

WIND — Light from the NW^ly on the west coasts of our Islands and France, and from the W^ly in Scotland.
Light NE^ly in the southeast of England, variable in the northeast of England and the Centre of France as well as on the eastern shores of the North Sea.
Light from the S^ly or SE^ly at the Scandinavian stations.

WEATHER — Dull at some of our western and northern stations, as well as in France, with a thunderstorm at Lyons.
Fine in nearly all other localities, with haze at some of the English stations.
Thunderstorms occurred yesterday in many parts of France, and slight rain fell in the west of Ireland.

SEA — Moderate at Stornoway, Scilly and Lorient, but smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The general appearance is somewhat less settled than of late, the tendency being for the development of shallow depressions over England and France. An increase of cloud is probable in most districts, with local thunderstorms.

FORECASTS

for the 24 hours ending at NOON on 28th JUNE. *1889.*

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Light breezes, chiefly W^ly; fair generally.
1 SCOTLAND EAST	Light variable airs; cloudy, some rain, thunder locally.
2 ENGLAND N.E.	
3 ENGLAND EAST	Variable or N^ly airs; fine at first, unsettled later, thunder locally.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Light breezes, chiefly NW^ly; cloudy, thunder locally.
7 ENGLAND N.W.	
8 ENGLAND S.W.	NW^ly winds, light; fair generally.
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* (▼) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *points upwards* (▲) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesnaes ...	30·07	61	55	NW	6	b	3
Sumburgh Head	30·02	56	56	SSE	1	o	1
Stornoway ...	29·98	60	58	W	5	o	4
Aberdeen ...	30·03	58	61	SSE	3	bm	2
Shields	30·05	70	61	SE	4	b	2
Ardrossan ...	30·05	67	? 67	S	1	b	0
Malin Head ...	30·06	63	59	WNW	4	o	3
Mullaghmore ...	30·09	62	59	SW	2	o	2
Belmullet ...	30·10	63	58	SW	4	be	*

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Holyhead ...	30·12	68	60	SW	1	b	2
Valencia	30·16	66	60	SW	3	bm	3
Scilly	30·11	64	62	N	3	bm	4
Jersey	30·07	72	65	NNW	3	b	3
Dungeness ...	30·05	71	65	ENE	2	b	1
London	30·07	77	63	NE	2	b	*
Yarmouth ...	30·12	64	61	NE	3	b	2
Rochefort ...	30·00	73	70	WNW	3	o	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure varied from 30·1 ins. and more in a band which lay across Ireland, England, the southern parts of the North Sea and North Germany, and from rather above 30·0 ins over Algeria and the southern half of Spain, to less than 29·7 ins. over Central Russia and to rather less than 30·0 ins. in a shallow disturbance lying over the North of Spain and the southwest of France. Thus while light W.ly and SW.ly breezes were blowing over the extreme northwestern parts of the United Kingdom, those over the Baltic, the south of England and the greater part of France were N.ly; elsewhere the wind was extremely light and variable. The weather was fine in most places, hazy at several stations and overcast over Spain and the southwest of France, in which regions thunderstorms and showers had prevailed during the previous night. Temperature was still low over northern and Central Russia, but had increased decidedly in other parts of Europe, fallen decidedly over Algeria, the Black Sea and Turkey. The highest morning readings were 79° at Palermo and Cagliari, 77° at Sfax and Brindisi, 76° at Lesina, 75° at Barcelona, 74° at Toulon and Sanguinaire, 73° at Leghorn, Rome and La Galle, and 71° at Oran and Brussels; at Berlin the temperature was 69°, in London 65° and at Paris 64°. The lowest values were 44° at Archangel, 53° at Moscow, 54° at Bodö and Sumburgh Head, 55° at Kharkov and Skudesnaes, 56° at Roche's Point and Pembroke, and 58° at York and Fanö.

Later on the shallow depression in the South reached Central France; thunderstorms and rain occurred at several French stations, and slight rain fell in some parts of Ireland and the Hebrides also. Temperature in the shade rose to between 75° and 80° over our Inland Counties, to 81° in the south of France, to 84° at Berlin, and to 85° at Paris.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Friday 28th June 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·13	59	L	0	b	30·19	+ ·07	60	57	+ 1	S	2	o	*	66	39	—
	Hernösand ...	30·08	59	L	0	bc	30·14	+ ·03	61	57	+ 1	S	2	bc	*	72	48	—
	Stockholm ...	30·06	61	SE	2	b	30·13	+ ·09	68	59	0	E	4	b	*	73	54	—
	Wisby	30·04	60	E	4	b	30·08	+ ·04	64	57	0	E	2	b	*	?	55	—
	Bodö	29·96	58	N	2	b	30·12	+ ·11	55	52	+ 1	L	0	c	0	?	50	—
	Christiansund...	30·01	61	WSW	3	f	30·04	+ ·09	59	56	+ 1	NNE	3	f	2	63	55	—
	Skudesnaes ...	29·99	59	NW	6	b	30·03	+ ·04	59	55	+ 2	NNW	6	b	3	63	54	—
	Christiania Fjord (Færder)	29·97	64	S	3	m	30·03	+ ·07	63	58	+ 2	ENE	2	c	1	64	59	—
	Skagen (The Scaw)	29·95	60	L	0	m	30·00	+ ·02	59	57	— 1	SW	2	m	1	70	55	—
	Fanö	30·01	60	NW	2	b	30·02	— ·03	59	59	— 1	NW	3	m	*	68	54	—
BRITISH ISLANDS.	Sumburgh Head	30·03	57	W	1	b	30·00	+ ·06	57	56	+ 1	SSE	2	c	3	60	48	—
	Stornoway ..	30·01	57	SW	4	c	29·94	— ·04	57	56	+ 1	SW	5	o	4	62	50	—
	Wick	30·04	58	SE	1	bc	30·00	+ ·04	62	56	+ 3	L	0	c	0	65	52	0·05
	Nairn	30·00	68	W	1	b	30·00	+ ·04	59	52	0	W	2	b	1	69	45	—
	Aberdeen... ...	30·07	57	E	1	b	30·03	+ ·01	59	55	— 1	S	1	c	1	67	52	—
	Leith ...	30·04	66	SW	1	bc	30·04	·00	59	52	— 4	W	1	bc	*	72	52	—
	Shields	30·05	61	ENE	1	o	30·04	+ ·01	65	59	+ 1	WSW	1	c	2	68	51	—
	Spurn Head ...	30·03	59	SE	2	c	30·06	·00	61	59	— 1	ESE	2	c	2	66	56	—
	York	30·03	73	ENE	2	bc	30·06	·00	59	56	— 4	S	1	c	*	81	58	—
	Loughborough	30·02	76	NW	1	c	30·07	— ·01	65	60	+ 1	SE	2	c	*	81	58	—
	Ardrossan ...	30·07	66	W	3	bv	30·05	— ·01	58	54	— 2	L	0	om	0	67	48	—
	Malin Head ...	30·06	60	WNW	3	b	30·03	— ·05	57	57	+ 2	SW	3	o	3	62	53	—
	Mullaghmore ...	30·10	60	WNW	2	c	30·07	— ·03	55	52	— 2	S	4	o	3	62	52	—
	Belmullet ...	30·12	57	WSW	2	o	30·05	— ·05	57	54	+ 1	WSW	3	o	*	60	55	—
	Donaghadee ...	30·09	63	NNE	3	b	30·08	— ·02	61	56	— 1	WSW	3	b	1	64	54	—
	Barrow-in-Furness	30·07	65	NW	2	bc	30·07	— ·01	60	57	0	NE	2	c	*	68	54	—
	Liverpool (Bidston)	30·08	65	WNW	2	b	30·08	— ·01	60	57	— 1	WNW	1	c	2	67	55	—
	Holyhead ...	30·09	59	NNW	1	b	30·08	— ·01	63	59	+ 3	NW	1	bw	1	64	53	—
	Parsonstown ...	30·09	65	L	0	c	30·11	·00	54	52	— 3	L	0	o	*	68	44	—
	Valencia	30·14	62	W	1	bcv	30·14	— ·02	59	56	+ 1	SW	1	c	2	65	49	0·02
	Roche's Point...	30·13	64	W	2	c	30·13	+ ·01	58	54	— 2	NW	1	c	2	66	53	—
	Pembroke ...	30·09	61	NW	1	b	30·09	·00	56	56	— 3	L	0	f	0	65	54	—
	Scilly	30·11	63	WNW	4	b	30·13	+ ·02	61	58	0	NW	4	o	4	66	56	—
	Prawle Point ...	30·05	72	NNW	3	b	30·12	+ ·06	62	58	— 8	W	4	bc	1	76	53	—
	Jersey	30·04	70	WNW	3	bm	30·12	+ ·09	61	58	— 6	NW	5	bm	4	72	57	—
	Hurst Castle ...	30·00	68	W	3	cm	30·08	+ ·04	65	64	— 3	N	2	m	0	80	57	—
	Dungeness ...	29·97	70	NE	2	bc	30·04	+ ·05	62	60	— 5	NNW	3	bc	2	72	54	—
	London	30·00	74	E	2	bm	30·06	+ ·03	65	60	— 2	ESE	1	b	*	80	55	—
	Oxford	30·03	69	N	1	bc	30·07	+ ·01	64	59	— 2	SE	1	bm	*	79	54	—
	Cambridge ...	30·03	70	E	1	b	30·08	+ ·03	63	59	— 4	E	1	o	*	80	50	—
	Yarmouth ...	30·05	65	NE	2	b	30·08	+ ·03	63	60	+ 1	NNE	2	b	2	66	55	—
GERMANY.	Cuxhaven ...	29·99	66	N	3	b	29·99	— ·08	69	65	+ 7	ENE	1	b	*	70	65	—
	Berlin	29·93	75	N	4	b	29·96	— ·08	68	60	— 2	NNE	2	b	*	81	63	—
	Wiesbaden ...	*	*	*	*	*	29·91	— ·07	69	63	— 2	N	2	o	*	77	63	—
	Munich	29·93	62	L	0	bc	29·93	— ·07	59	59	— 5	SSE	2	r	*	73	57	0·43
FRANCE & NETHERLANDS.	The Helder ...	30·01	64	NE	2	b	30·02	·00	65	62	— 1	NE	2	bc	3	68	61	—
	Brussels	*	*	*	*	*	30·00	+ ·04	65	61	+ 1	NNE	1	b	*	82	62	0·04
	Cape Gris Nez...	?	63	NE	4	m	?	?	59	58	— 3	NE	2	o	2	68	57	—
	Paris	29·92	72	N	2	o	30·03	+ ·09	60	58	— 5	N	2	bc	*	76	59	0·04
	Brest	?	62	N	4	b	?	?	60	57	0	NNW	3	o	3	77	52	—
	Lorient	30·08	69	NW	3	b	30·15	+ ·12	57	56	— 4	NW	3	b	2	73	55	—
	Rochefort ...	29·99	70	NW	4	b	30·15	+ ·15	68	62	— 2	NW	2	b.	2	73	57	—
	Belfort	29·95	65	W	1	o	29·95	·00	63	59	+ 2	W	1	o	*	72	59	0·08
	Lyons	29·88	69	ESE	1	bc	30·01	+ ·03	61	60	+ 2	E	1	o	*	75	58	0·47
	Nice...	29·89	72	SE	5	m	29·83	— ·10	67	61	— 5	ENE	3	b	1	75	63	—
	Perpignan ...	29·97	69	W	1	o	30·07	+ ·15	69	62	— 1	NW	4	o	*	80	66	—
	Biarritz	30·11	66	W	6	r	30·20	+ ·18	64	61	— 1	W	5	o	3	70	63	—
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30·18	63	NW	4	o	30·19	+ ·01	63	60	+ 1	NNW	4	b	2	70	59	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Friday, 28th June. 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words*

Wind — *Arrows show the prevailed winds. They fly with the wind and their barbs and feathers refer to force thus —*

→ = forces above 10, → = forces 8 to 10,
→ = forces 5 to 7, → = forces 1 to 4,
⊙ = dead calm.

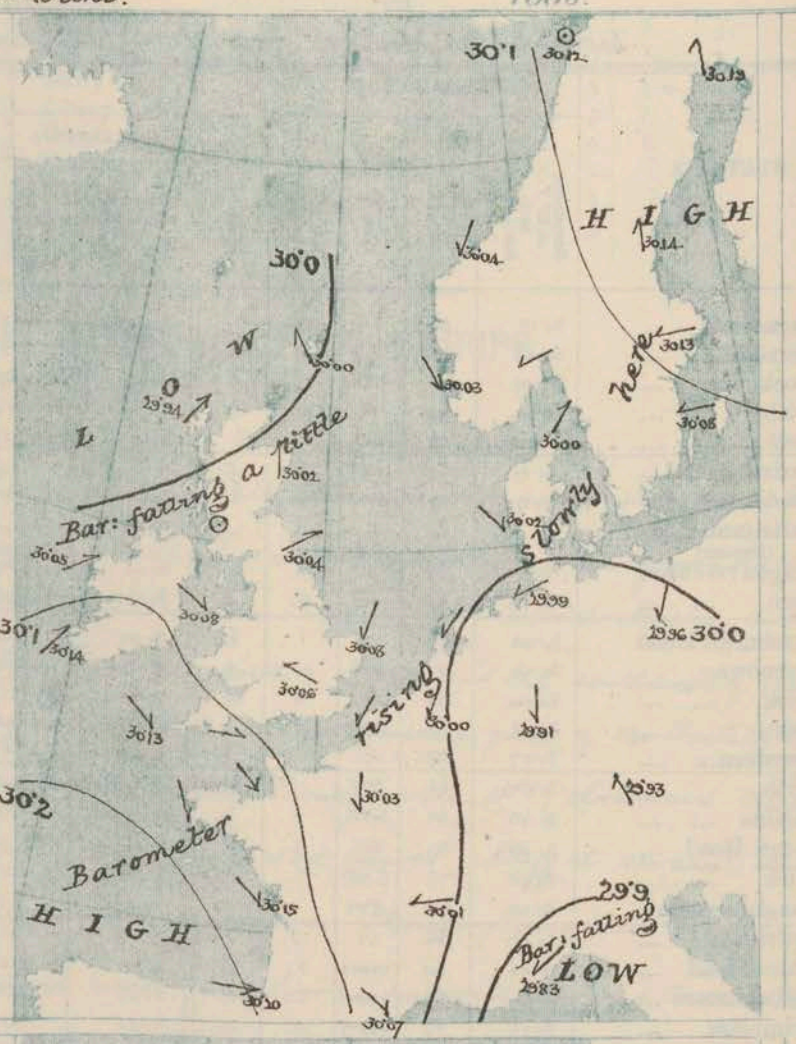
Sea Disturbance — *where considerable, is shewn thus.*

= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M.

with RAINFALL in PAST 24 HOURS.

Temperature — *Isotherms are drawn for each 10° Changes since previous morning are stated in words*

Weather is shown by Letters of the Beaufort Scale

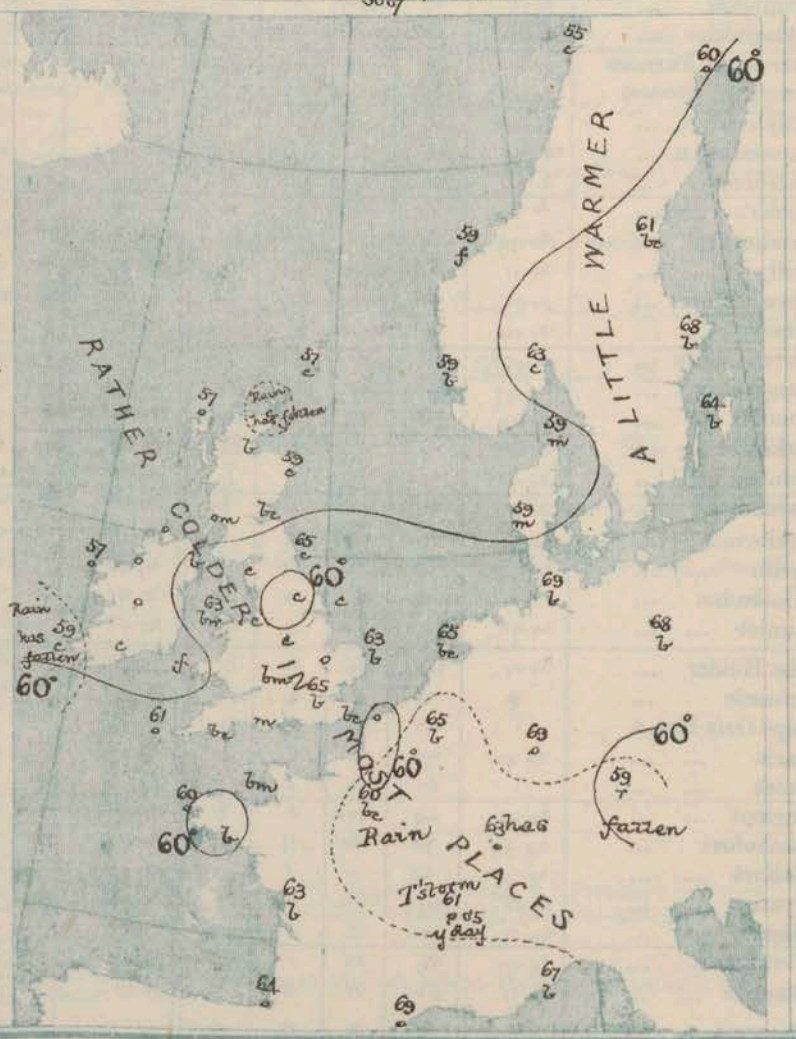
Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none Falls of 0·5in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry	Wet.	RAINFALL. (Inches)
Sumburgh Head	54·5	45·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·29
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·88
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	52·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	64·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	53·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871 — 85, the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30.2 ins. and upwards, in an anticyclone lying over the Bay of Biscay and the north of Spain, 30.1 ins. and upwards over Sweden. Lowest 29.9 ins. and less, in the southeast of France, 30.0 ins. and less, in the northwest of Scotland. Gradients slight. Barometer falling over the northern parts of our Islands, but rising elsewhere.

TEMPERATURE — Highest 69° at Laxhaven, Wiesbaden and Perpignan, 68° at Stockholm and Berlin, and 67° at Nice. Lowest 54° at Parsonstown, 55° at Bodö and Mullaghmore, 56° at Pembroke, 57° at Mornaway Malin Hd. & Belmullet. During yesterday the thermometer rose to 80° at Hurst Castle, Cambridge, and in London, & to 81° at York and Loughborough.

WIND — Light or moderate from the SW. in Ireland and Scotland, and from the NW. over the Channel and France. Variable over Germany and the east and central parts of England; NW. on the eastern shores of the North Sea; SW. in the North of Sweden.

WEATHER — Fine generally, but dull on our extreme northwest coasts, as well as at some of the French and German stations, with rain at Munich. Rain fell yesterday in some parts of Germany and France, and a thunderstorm occurred at Lyons.

SEA — Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any material change in the weather.

FORECASTS

for the 24 hours ending at NOON on 29th JUNE. *1889.*

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW. winds, moderate; cloudy, some rain.	6 SCOTLAND WEST	W. and SW. winds, light; fair generally
1 SCOTLAND EAST	SW. winds, light; fair generally.	7 ENGLAND N. W.	
2 ENGLAND N.E.	Light Variable breezes; fair generally, but perhaps local thundershowers.	8 ENGLAND S. W	W. winds, light or moderate; fair generally
3 ENGLAND EAST		9 IRELAND NORTH	Same as No. 0
4 MIDLAND COUNTIES		10 IRELAND SOUTH	Same as Nos. 6 and 7.
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone,** *point downwards* (▽) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (△) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesmes ...	29·99	63	58	W	6	bm	2
Sumburgh Head	30·01	58	55	W	1	c	1
Stornoway ...	30·00	61	54	W	4	c	4
Aberdeen ...	30·06	61	57	ENE	2	b	2
Shields	30·04	65	60	ENE	1	o	2
Ardrossan ...	30·08	67	?	W	3	bv	2
Malin Head ...	30·10	62	56	WNW	3	b	3
Mullaghmore ...	30·13	60	59	WNW	2	bc	2
Belmullet ...	30·15	58	53	W	1	o	*

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Holyhead ...	30·11	62	59	NNW	1	b	1
Valencia	30·17	64	57	W	2	cv	2
Scilly	30·13	65	62	NW	4	bc	4
Jersey	30·05	70	63	NNW	2	bm	2
Dungeness ...	29·99	71	63	ENE	2	bc	1
London	30·02	44	64	SE	1	c	*
Yarmouth ...	30·05	65	62	NNE	2	b	2
Rochefort ...	30·00	71	68	NW	4	b	2

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure exceeded 30·1 ins. over Ireland and the greater part of the Peninsula on the one hand, and over the Gulf of Bothnia, Finland and the north of Russia on the other, the two regions being united by a band (in which readings exceeded 30·0 ins.) lying across England, the North Sea, North Germany and the Baltic. A large and very shallow low-pressure system lay over the Mediterranean, France and western Germany, and a deeper system over the southern half of Russia, where pressure was below 29·6 ins. N. to NW. breezes of little strength prevailed over the western and southern parts of our Islands, the Bay of Biscay and the Peninsula, W. winds in the northwest of Scotland, and S. over Scandinavia. Over France and central Europe the wind was extremely light and variable, but in the Baltic Provinces it was NE., and in Poland and western Russia N. The weather was clear and bright over Central Europe and at the Italian stations, fair in most other places, but with a good deal of cloud about. A thunderstorm was in progress at Lyons and Nantes. Temperature was low for the time of year in Russia, high over the Mediterranean and (for the locality) in the north of our Islands also. The highest morning readings recorded were 82° at Cagliari, 79° at Brindisi, 77° at Sfax, Malta, Tunis and Leghorn, 76° at Barcelona, 75° at Palma and Constantinople, 74° at Rome and Lesina, 72° at Nice, and 70° at Perpignan, Toulon, Buda Pesth and Berlin. In London the temperature was 67°, and at Aberdeen 66°. The lowest morning values were 46° at Archangel, 51° at St Petersburg, 54° at Bodö, 55° at Malin Head, 56° at Stornoway, Sumburgh Head and Moscow, and 57° at Parsonstown, Skudesnaes, Kiev and Kharkov.

Later in the day the barometer fell a little in the west and northwest of our Islands, where light SW. winds became general. Temperature rose quickly, the maxima recorded in the shade being as high as 82° at Brussels, 81° at Berlin and Loughborough, 80° at Cambridge, Hurst Castle, in London, and at Perpignan. Some rain fell at a few of the Continental stations, and thunderstorms occurred at Lyons.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8 p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Saturday 29th June 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·19	60	S	2	b	30·23	+ ·04	63	57	+ 3	S	2	m	*	70	52	—
	Hernösand ...	30·19	58	Z	0	b	30·18	+ ·04	62	56	+ 1	Z	0	b	*	73	52	—
	Stockholm ...	30·13	62	SE	2	b	30·15	+ ·02	66	56	— 2	N	4	b	*	72	54	—
	Wisby	30·08	58	ENE	4	b	30·12	+ ·04	61	56	— 3	NE	2	b	*	66	52	—
	Bodö	30·02	58	WSW	1	b	29·99	— ·13	64	57	+ 9	SW	2	c	1	?	50	—
	Christiansund...	30·02	60	NNE	2	bc	30·10	+ ·06	59	54	0	WSW	1	bc	3	64	59	0·04
	Skudesnaes ...	30·09	59	NNW	2	b	30·14	+ ·11	60	56	+ 1	ESE	2	b	1	65	52	—
	Christiania Fjord (Færder)	30·03	63	SW	3	c	30·10	+ ·07	66	61	+ 3	Z	0	c	1	70	63	—
	Skagen (The Scaw)	30·04	63	N	1	m	30·06	+ ·06	59	57	0	W	1	m	1	73	52	—
	Fanö	30·09	59	NW	4	c	30·16	+ ·14	62	59	+ 3	NW	1	b	*	73	52	—
BRITISH ISLANDS.	Sumburgh Head	29·99	59	W	1	c	30·12	+ ·12	56	52	— 1	Z	0	0	1	60	49	0·01
	Stornoway ..	30·00	52	SW	4	r	30·10	+ ·16	55	52	— 2	SW	4	0	4	59	48	0·04
	Wick	30·10	60	SE	1	bc	30·15	+ ·15	58	52	— 4	ENE	1	c	0	71	46	—
	Nairn	30·00	65	W	2	b	30·15	+ ·15	58	53	— 1	Z	0	0	1	69	51	—
	Aberdeen... ...	30·03	59	NE	3	b	30·18	+ ·15	61	55	+ 2	N	1	bc	1	73	50	—
	Leith	30·07	65	WSW	1	bc	30·19	+ ·15	60	54	+ 1	WSW	1	0	*	73	48	—
	Shields	30·06	66	SE	3	m	30·19	+ ·15	63	56	— 2	Z	0	b	2	68	51	—
	Spurn Head ...	30·06	60	ESE	3	b	30·18	+ ·12	60	57	— 1	NNE	4	0	3	64	57	—
	York	30·06	70	ENE	1	0	30·20	+ ·14	62	57	+ 3	NNW	1	b	*	73	55	—
	Loughborough	30·07	67	SW	1	r	30·22	+ ·15	63	59	— 2	W	2	c	*	81	54	0·36
	Ardrossan ...	30·08	63	Z	0	b	30·20	+ ·15	61	59	+ 3	NW	1	0	0	66	52	—
	Malin Head ...	30·07	59	W	4	0	30·19	+ ·16	57	52	0	SSW	2	0	2	63	53	—
	Mullaghmore ...	30·12	57	W	4	p	30·22	+ ·15	56	51	+ 1	SSW	4	og	3	63	49	—
	Belmullet ...	30·15	57	WNW	2	bc	30·21	+ ·16	57	53	0	WSW	3	0	*	61	52	—
	Donaghadee ...	30·11	66	NNW	3	bc	30·24	+ ·16	60	56	— 1	WNW	2	c	0	70	55	—
	Barrow-in-Furness	30·12	64	WNW	2	b	30·20	+ ·13	60	58	0	ENE	3	bc	*	67	56	—
	Liverpool (Bidston)	30·11	62	WNW	3	bc	30·24	+ ·16	62	56	+ 2	W	2	bc	2	66	54	—
	Holyhead ...	30·13	60	NW	1	b	30·24	+ ·16	60	58	— 3	WNW	1	cg	1	65	54	—
	Parsonstown ...	30·14	62	SW	1	c	30·25	+ ·14	56	54	+ 2	Z	0	bc	*	63	49	—
	Valencia	30·19	60	W	2	om	30·30	+ ·16	60	55	+ 1	SSW	1	bcm	1	65	50	—
	Roche's Point...	30·17	62	WSW	3	c	30·28	+ ·15	60	57	+ 2	W	1	bc	2	64	54	—
	Pembroke ...	30·16	58	NW	2	bc	30·27	+ ·18	60	57	+ 4	NW	1	c	0	63	54	—
	Scilly	30·19	61	WNW	4	bc	30·29	+ ·16	60	59	— 1	WNW	4	0	4	64	57	—
	Prawle Point ...	30·15	65	NNW	3	b	30·26	+ ·14	64	60	+ 2	NNW	3	b	1	66	52	—
	Jersey	30·18	63	W	4	b	30·28	+ ·16	60	58	— 1	WNW	4	bc	3	65	55	—
	Hurst Castle ...	30·12	67	WSW	4	bm	30·22	+ ·14	65	60	0	NNW	2	m	1	76	54	—
	Dungeness ...	30·09	58	SSW	1	f	30·18	+ ·14	64	60	+ 2	Z	0	m	0	69	52	—
	London	30·09	70	E	1	c	30·18	+ ·12	65	61	0	E	1	bm	*	80	55	—
	Oxford	30·10	66	W	1	0	30·22	+ ·15	61	57	— 3	NW	2	c	*	76	54	—
	Cambridge ...	30·07	73	SSE	1	b	30·19	+ ·11	65	60	+ 2	N	1	0	*	79	53	—
	Yarmouth ...	30·08	67	NNE	1	b	30·18	+ ·10	59	58	— 4	Z	0	f	1	68	55	—
GERMANY.	Cuxhaven ...	30·02	67	N	4	m	30·12	+ ·13	69	64	0	SSE	1	m	*	72	?58	—
	Berlin	29·97	72	NE	3	b	30·10	+ ·14	62	56	— 6	NNE	4	c	*	79	55	—
	Wiesbaden ...	*	*	*	*	*	30·14	+ ·23	68	64	— 1	NW	1	0	*	81	59	0·04
	Munich	30·06	57	SE	2	r	30·18	+ ·25	62	60	+ 3	W	4	c	*	72	54	1·42
FRANCE & NETHERLANDS.	The Helder ...	30·06	68	NE	1	b	30·15	+ ·13	67	63	+ 2	ENE	1	bc	1	72	64	—
	Brussels	*	*	*	*	*	30·17	+ ·17	63	61	— 2	WSW	1	0	*	79	61	0·04
	Cape Gris Nez...	?	61	SW	1	f	?	?	60	57	+ 1	SSW	1	b	1	68	55	—
	Paris	30·07	73	N	2	bc	30·22	+ ·19	62	58	+ 2	N	2	bc	*	80	53	—
	Brest	30·08	62	N	2	c	?	?	60	58	0	NNW	1	0	2	68	52	—
	Lorient	30·19	63	NW	4	bc	30·33	+ ·18	57	56	0	NW	2	0	2	68	54	—
	Rochefort ...	30·22	55	NW	5	b	30·31	+ ·16	63	61	0	NNE	3	0	2	70	55	—
	Belfort	30·02	65	W	1	0	30·16	+ ·21	62	57	— 1	NW	1	0	*	70	59	0·12
	Lyons	30·09	62	WNW	1	0	30·18	+ ·17	64	61	+ 3	N	1	0	*	71	60	0·79
	Nice...	29·85	70	SW	5	bc	29·98	+ ·15	69	63	+ 2	NE	2	b	1	81	61	—
	Perpignan ...	30·11	73	NW	4	b	30·20	+ ·13	68	61	— 1	NW	3	b	*	78	63	—
	Biarritz	30·26	67	NW	3	bc	30·29	+ ·09	64	58	0	NNW	3	0	2	72	61	—
PENINSULA.	Corunna	*	*	*	*	*												
	Lisbon	30·15	68	NW	5	b	30·17	— ·02	64	60	+ 1	N	4	b	2	77	59	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Saturday, 29th June. 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.

Wind — Arrows show the prevailing winds. They fly with the wind and their barbs and feathers refer to force, thus —

→ = forces above 10; → = forces 8 to 10;
→ = forces 5 to 7; → = forces 1 to 4;
⊙ = dead calm.

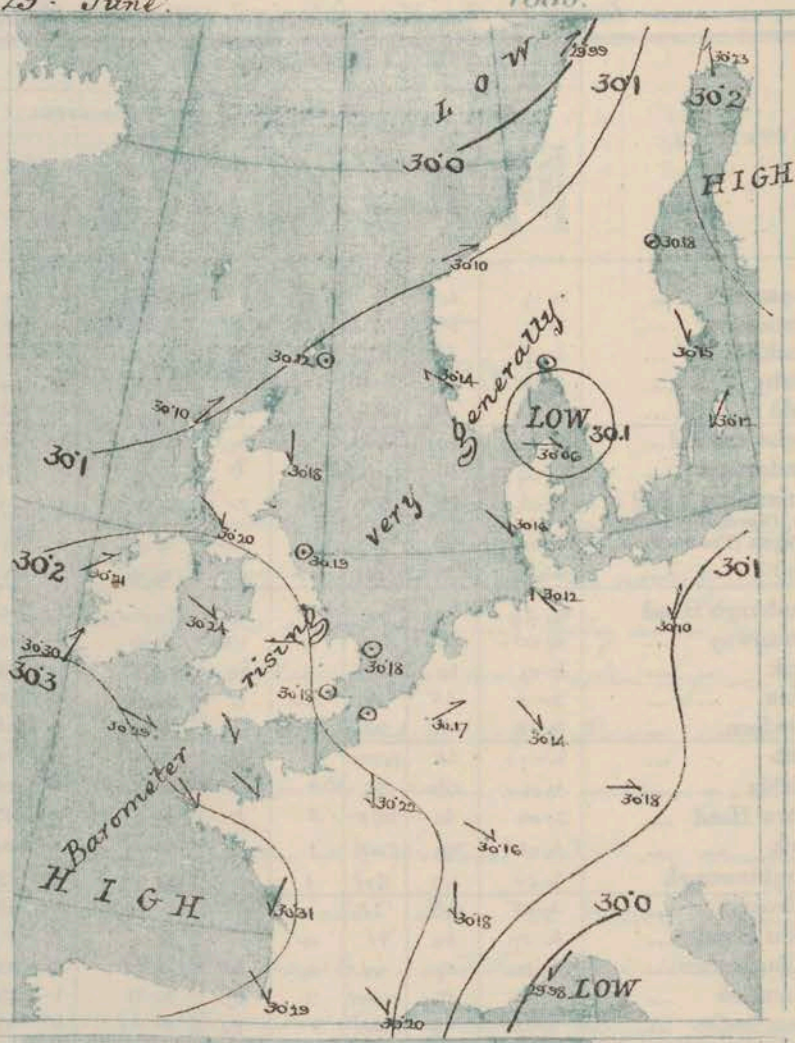
Sea Disturbance — where considerable is shewn thus.

= Rough. = High.

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. in.
Sumburgh Head	29·862
Stornoway	29·852
Wick	29·874
Nairn	29·880
Aberdeen	29·890
Leith	29·904
Shields	29·928
York	29·949
Loughborough	29·958
Ardrossan	29·909
Donaghadee	29·920
Holyhead	29·944
Liverpool	29·944
Parsonstown	29·952
Valencia	29·954
Roche's Point	29·952
Pembroke	29·952
Scilly	29·982
Jersey	29·994
Hurst Castle	29·981
Dover	29·971
LONDON	29·976
Oxford	29·964
Cambridge	29·967
Yarmouth	29·963



TEMPERATURE, & WEATHER at 8 A.M., with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

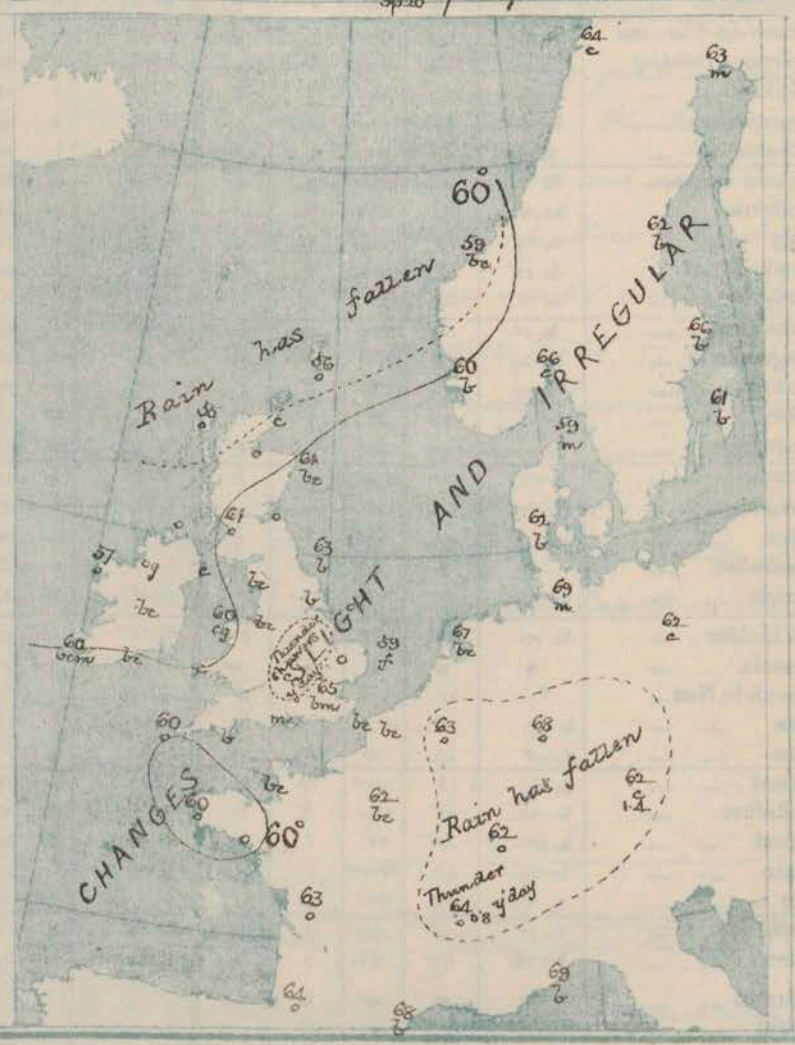
Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5 in. or more, are quoted in figures.

MEANS OF TEMPERATURE IN SHADE. AND RAINFALL.

for the month of June.

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	at 8 a.m. Wet.	RAINFALL. (Inches)
Sumburgh Head	54·3	46·1	50·4	48·7	2·07
Stornoway	57·6	46·0	53·3	51·0	2·99
Wick	58·8	45·7	53·1	50·4	1·75
Nairn	62·1	48·0	54·2	50·4	1·88
Aberdeen	61·3	47·5	54·7	50·9	1·83
Leith	64·5	48·1	56·0	52·5	1·84
Shields	60·9	49·1	54·9	51·9	1·82
York	66·2	48·3	56·1	53·7	2·45
Loughborough	68·7	49·0	58·1	54·1	2·43
Ardrossan	62·0	49·7	55·1	52·0	2·62
Donaghadee	60·9	48·9	55·0	52·8	2·04
Holyhead	61·7	51·6	55·6	53·1	2·10
Liverpool	63·6	50·9	56·6	52·6	1·96
Parsonstown	64·0	48·2	55·8	52·2	2·46
Valencia	61·7	50·7	56·8	53·8	3·42
Roche's Point	54·8	50·8	56·5	53·3	3·26
Pembroke	60·3	51·4	55·0	52·9	2·09
Scilly	61·1	53·0	57·2	55·0	1·94
Jersey	64·8	52·6	58·7	55·9	1·83
Hurst Castle	63·9	51·9	57·6	55·4	2·07
Dover	63·3	52·1	58·6	55·1	1·72
LONDON	69·3	50·6	59·2	54·8	2·12
Oxford	67·1	49·4	56·9	53·4	2·28
Cambridge	68·8	48·5	58·0	54·7	2·40
Yarmouth	62·2	51·4	56·9	54·1	2·02

NOTE — The Temperature means are for the 15 years 1871—85 the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·3 ins. and upwards, in a large anticyclone lying over the Bay of Biscay and our extreme southwest coasts; 30·2 ins. and upwards over the Gulf of Bothnia.
Lowest 30·0 ins. and less, off the northwest of Norway, and also over the Gulf of Genoa.
Gradients slight. Barometer rising generally.

TEMPERATURE — Highest 69° at Cuxhaven and Nice, 68° at Wiesbaden and Perpignan, 67° at Helder, and 65° at Hurst Castle, Cambridge and in London.
Lowest 55° at Stornoway, 56° at Mullaghmore and Parsonstown, and 57° at Malin Head, Belmullet and Lorient.
During yesterday the thermometer rose to 79° at Cambridge, 80° in London, and 81° at Loughborough.

WIND — Light or moderate from the SW^ly and in the extreme west and northwest of our Islands, as well as in the north of Scandinavia.
NW^ly or N^ly over France and the west and south of England.
Variable over the south of Scandinavia, the North Sea and the adjacent coasts.

WEATHER — Fine generally, but dull at several of our northern stations, as well as in some parts of France.
Thundershowers occurred yesterday in several parts of England, Germany and France; at Lyons 0·8 in. of rain has been measured, and at Munich 1·4 in.

SEA — Moderate at Stornoway and Scilly, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any change in the weather.

FORECASTS

for the 24 hours ending at NOON on Sunday, 30th June 1889.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Light breezes, chiefly W^ly; fair generally.	6 SCOTLAND WEST	W^ly and NW^ly winds, light or moderate; fair generally.
1 SCOTLAND EAST	Variable or N^ly airs; fair generally.	7 ENGLAND N. W.	
2 ENGLAND N.E.		8 ENGLAND S. W	
3 ENGLAND EAST	NW^ly winds, light; fine, warm.	9 IRELAND NORTH	SW^ly and W^ly winds, light; fair generally.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▽) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *points upwards* (△) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesmes ...	30·07	65	57	WNW	6	b	2
Sumburgh Head	29·99	57	55	W	1	o	3
Stornoway ...	29·96	56	53	SW	5	c	5
Aberdeen ...	29·98	66	56	SSE	3	bc	2
Shields	30·04	65	60	E	2	f	2
Ardrossan ...	30·06	59	57	SSW	2	c	1
Malin Head ...	30·05	60	55	W	3	bc	4
Mullaghmore ...	30·09	62	55	WSW	4	c	2
Belmullet ...	30·09	60	55	WSW	3	o	*

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Holyhead ...	30·11	62	58	NW	1	c	1
Valencia	30·18	63	58	SW	3	o	3
Scilly	30·17	64	60	WNW	4	bc	4
Jersey	30·17	63	58	WNW	4	b	4
Dungeness ...	30·07	64	61	SSW	3	f	2
London	30·06	77	63	E	1	bm	*
Yarmouth ...	30·08	67	63	NE	2	b	2
Rochefort ...	30·20	67	63	NW	5	c	3

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was highest, (30·1 ins. to 30·2 ins. and more) over northern Europe and Scandinavia on the one hand, and over the southwest of our Islands, the west of France and the Spanish Peninsula on the other, while it was lowest, (29·7 ins. and less) over the southern half of Russia and the southeast of Austria, and was as low as 29·8 ins. over the Gulf of Genoa also. The two high-pressure areas were united by a "Col" which lay across the British Islands and North Sea. The wind was E. ¾ over the Baltic and Gulf of Finland, NW. ¾ on our southwestern coasts and over the Bay of Biscay and Spain – very light and variable elsewhere, but mainly SW. ¾ on our own northwestern coasts. The weather was fine and bright over northern Russia and the Baltic as well as in Spain and Algeria, fair generally in most other places (but with a good deal of cloud and haze locally) unsettled and overcast in southeastern Europe, and rainy at Munich and Kiev. Temperature exceeded 70° at almost all the Mediterranean stations, and ranged between 60° and 69° over England, France, central Europe and Sweden, but was below 60° on our extreme west and northwest coasts, as well as over Norway, Finland, central and southern Russia, and below 50° in the neighbourhood of the White Sea. The highest morning values were 81° at Pesaro, 79° at Brindisi, 78° at Constantinople and Lesina, 77° at Barcelona, 75° at Palermo and Cagliari, and 74° at Malta, Naples and Rome. At Berlin the temperature was 68°, in London 68°, and at Paris 60°. The lowest values were 47° at Archangel, 50° at Moscow, 53° at Kiev, 55° at Mullaghmore and Bodö, 57° at Sumburgh Head, Stornoway and Belmullet.

Later on thundershowers occurred over our Midland counties, slight rain in the Hebrides, Shetlands and at Belfort; in other parts of western and northwestern Europe the weather was fair. Temperature rose to 79° at Berlin, 80° at Paris and in London, 81° at Loughborough, Wiesbaden and Nice.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

DAILY WEATHER REPORT.

for Sunday 30th June 1889.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	8 A.M. TO DAY. Barometer. Reading at 32° F and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force. (0 to 12.)	Weather.	Sea. 0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
SCANDINAVIA.	Haparanda ..	30·19	63	L	0	b	30·14	— ·09	67	57	+ 4	L	0	b	*	72	52	—
	Hernösand ...	30·16	61	L	0	b	30·16	— ·02	62	58	0	L	0	b	*	77	48	—
	Stockholm ...	30·14	61	L	0	b	30·14	— ·01	67	56	+ 1	L	0	b	*	73	52	—
	Wisby	30·10	58	E	2	b	30·14	+ ·02	60	58	— 1	N	2	b	*	66	52	—
	Bodö	30·17	57	L	0	b	30·11	+ ·12	58	54	— 6	L	0	bc	1	64	50	—
	Christiansund...	30·16	59	WNW	1	0	30·06	— ·04	60	57	+ 1	L	0	b	0	63	52	—
	Skudesnaes ...	30·13	64	L	0	bc	30·12	— ·02	61	58	+ 1	SSE	2	0	2	72	54	—
	Christiania Fjord (Farder)	30·08	68	WSW	3	m	30·07	— ·03	69	63	+ 3	SSE	2	c	1	72	63	—
	Skagen (The Scaw)	30·08	60	W	1	b	30·08	+ ·02	65	59	+ 6	NW	3	b	2	70	57	—
	Fanö	30·17	60	NW	2	bc	30·19	+ ·03	65	63	+ 3	WNW	4	c	*	72	53	—
BRITISH ISLANDS.	Sumburgh Head	30·14	54	L	0	0	30·04	— ·08	56	54	0	WSW	1	0	1	60	52	—
	Stornoway ..	30·06	52	SW	4	r	30·08	— ·02	55	54	0	W	3	c	4	56	50	0·05
	Wick	30·14	58	S	2	0	30·11	— ·04	58	54	0	NW	4	0	2	62	53	0·10
	Nairn	30·12	57	W	2	c	30·09	— ·06	59	54	+ 1	SW	1	c	1	64	54	0·03
	Aberdeen... ...	30·15	58	SW	2		30·12	— ·06	61	57	0	SW	2	c	1	63	55	0·01
	Leith	30·17	62	W	2	0	30·16	— ·03	60	57	0	W	2	0	*	71	58	—
	Shields	30·19	61	SSW	2	c	30·18	— ·01	66	60	+ 3	SW	3	c	2	69	55	—
	Spurn Head ...	30·21	63	NNE	2	c	30·25	+ ·07	62	59	+ 2	W	2	bc	3	66	55	—
	York	30·23	68	W	3	b	30·35	+ ·15	63	58	+ 1	W	3	c	*	75	53	—
	Loughborough	30·24	69	NW	2	bc	30·30	+ ·08	62	58	— 1	WNW	1	c	*	75	51	—
	Ardrossan ...	30·19	60	L	0	0	30·19	— ·01	60	55	— 1	W	4	c	3	63	56	—
	Malin Head ...	30·15	59	W	3	0	30·18	— ·01	56	54	— 1	W	4	cpq	3	62	54	0·02
	Mullaghmore ...	30·18	61	SW	4	0	30·19	+ ·07	57	54	+ 1	W	5	c	4	63	53	0·03
	Belmullet ...	30·18	59	WSW	4	0	30·34	+ ·13	56	53	— 1	WSW	3	cm	*	60	52	0·06
	Donaghadee ...	30·21	63	SW	4	bc	30·26	+ ·02	58	57	— 2	W	2	c	1	68	57	0·01
	Barrow-in-Furness	30·23	62	WSW	3	b	30·25	+ ·05	60	57	0	SW	4	c	*	65	59	—
	Liverpool (Bidston)	30·26	63	WNW	1	b	30·29	+ ·05	61	57	— 1	W	3	c	3	66	55	—
	Holyhead ...	30·24	59	SW	3	b	30·30	+ ·06	59	56	— 1	SW	2	cg	2	66	55	0·01
	Parsonstown ...	30·24	64	SW	1	0	30·31	+ ·06	58	55	+ 2	SW	1	0	*	67	55	—
	Valencia	30·31	61	SW	3	0	30·39	+ ·09	60	58	0	W	1	cm	1	64	56	0·03
	Roche's Point...	30·30	63	SW	4	bc	30·36	+ ·08	61	57	+ 1	W	2	c	3	67	55	—
	Pembroke ...	30·30	59	W	2	b	30·34	+ ·07	57	55	— 3	WSW	3	cg	2	62	52	—
	Scilly	30·33	61	WNW	2	b	30·39	+ ·10	60	58	0	WNW	4	0	4	64	57	—
	Prawle Point ...	30·29	66	NW	4	b	30·38	+ ·12	62	59	— 2	W	3	bc	2	70	52	—
	Jersey	30·31	63	W	4	b	30·41	+ ·13	61	59	+ 1	NW	3	bcm	3	65	55	—
	Hurst Castle ...	30·24	70	NNW	4	bc	30·25	+ ·13	62	60	— 3	NW	2	bc	1	72	54	—
	Dungeness ...	30·18	65	SW	5	bc	30·28	+ ·10	65	60	+ 1	N	1	bc	2	70	57	—
	London			WSW	2	c	30·30	+ ·12	65	60	0	WSW	1	c	*	80	57	—
	Oxford	30·26	65	N	2	bc	30·33	+ ·11	60	56	— 1	W	2	cm	*	75	51	—
	Cambridge ...	30·20	71	NE	1	0	30·30	+ ·11	65	59	0	L	0	c	*	75	51	—
GERMANY.	Yarmouth ...	30·20	64	NE	1	b	30·27	+ ·09	65	60	+ 6	NNW	2	b	1	65	55	—
	Cuxhaven ...	30·17	67	NNE	3	m	30·27	+ ·15	67	64	— 2	NNE	2	m	*	72	66	—
	Berlin	30·12	67	N	3	b	30·18	+ ·08	61	55	— 1	NNE	3	b	*	73	55	—
	Wiesbaden ...	*	*	*	*	*	30·23	+ ·09	66	64	— 2	W	1	bc	*	81	61	—
	Munich	30·19	58	W.	3	c	30·27	+ ·09	61	59	— 1	W	2	0	*	72	52	0·55
FRANCE & NETHERLANDS.	The Helder ...	30·18	68	NE	1	b	30·28	+ ·08	67	63	0	W	1	b	1	72	63	—
	Brussels	*	*	*	*	*	30·26	+ ·09	63	60	0	WSW	1	b	*	77	58	0·08
	Cape Gris Nez...																	
	Paris	30·21	73	NW	3	b	30·32	+ ·10	62	59	0	W	1	b	*	79	53	—
	Brest	?	63	N	1	b	?	?	60	59	0	NNW	2	0	2	64	52	—
	Lorient	30·36	64	NW	2	0	30·43	+ ·10	55	55	— 2	NNE	2	c	2	66	54	—
	Rochefort ...	30·34	67	NW	4	b	30·45	+ ·14	62	59	— 1	NNW	3	b	2	72	52	—
	Belfort	30·33	63	SW	1	c	30·42	— ·04	61	57	— 1	SW	1	0	*	68	55	0·04
	Lyons	30·20	65	NW	4	0	30·26	+ ·08	62	59	— 2	NNW	3	0	*	70	58	0·04
	Nice...	30·01	72	E	1	c	30·04	+ ·06	67	66	— 2	L	0	bc	1	81	63	0·35
	Perpignan ...	30·18	71	NW	4	c	30·26	+ ·06	69	60	+ 1	NW	4	b	*	78	64	—
	Biarritz	30·34	68	NNW	3	c	30·39	+ ·10	64	61	0	SE	2	bc	2	73	59	—
PENINSULA.	Corunna	*	*	*	*	*	?	?	71	66	+ 5	NE	1	b	4	?	59	—
	Lisbon	30·17	70	NW	4	b	30·13	— ·04	71	64	+ 7	NE	2	b	2	79	63	—

For Explanation of Columns, see p. 4.

‡ *Received too late for insertion in Charts on p. 2*

WEATHER CHARTS

for 8 a.m. on Sunday 30th June. 1889.

BAROMETER, WIND & SEA.

(Explanation of Map)

Barometer — *Isobars are drawn for each tenth of an inch. Changes since previous morning are stated in words.*

Wind — *Arrows show the prevalent winds. They fly with the wind and their barbs and feathers refer to force, thus —*

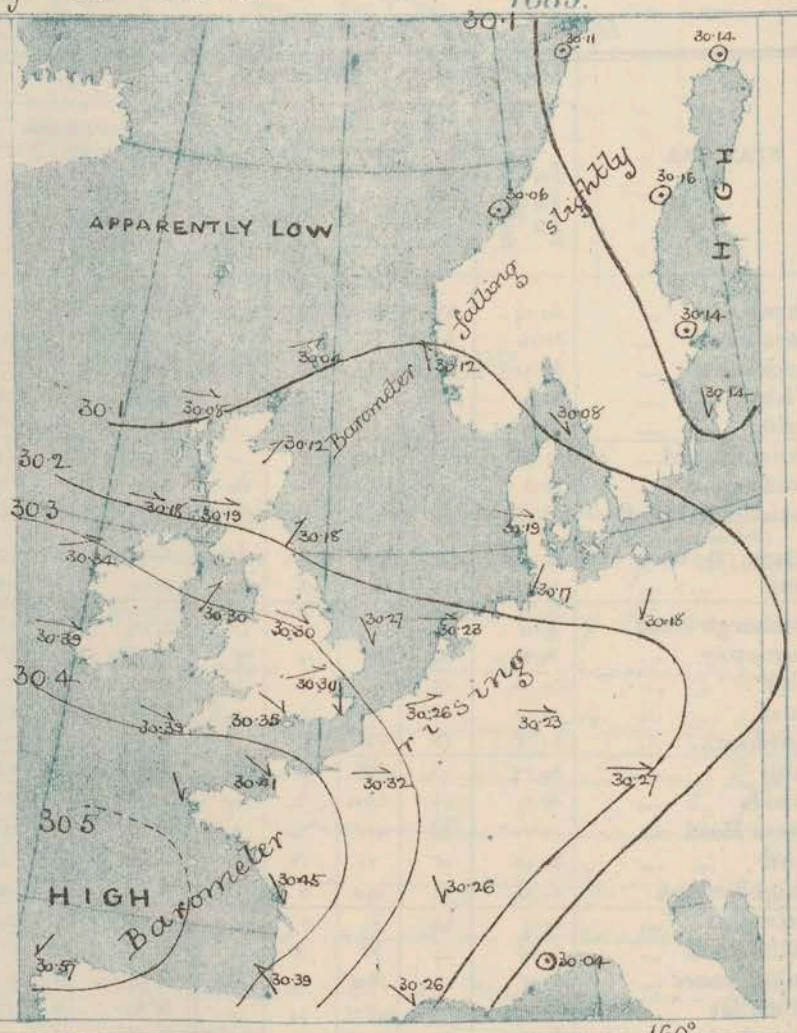
» → = forces above 10, → = forces 6 to 10;
→ = forces 5 to 7; → = forces 1 to 4;
⊙ = dead calm.

Sea Disturbance — where considerable, is shewn thus.
= Rough = High

MEAN HEIGHT of the BAROMETER

at 8 a.m. for the month of June
During the 15 Years 1871 — 1885.

STATIONS.	MEAN READINGS. ins.
Sumburgh Head	29 · 862
Stornoway	29 · 852
Wick	29 · 874
Nairn	29 · 880
Aberdeen	29 · 890
Leith	29 · 904
Shields	29 · 928
York	29 · 949
Loughborough	29 · 958
Ardrossan	29 · 909
Donaghadee	29 · 920
Holyhead	29 · 944
Liverpool	29 · 944
Parsonstown	29 · 952
Valencia	29 · 954
Roche's Point	29 · 952
Pembroke	29 · 952
Scilly	29 · 982
Jersey	29 · 994
Hurst Castle	29 · 981
Dover	29 · 971
LONDON	29 · 976
Oxford	29 · 964
Cambridge	29 · 967
Yarmouth	29 · 963



TEMPERATURE, & WEATHER at 8 A.M.,

with RAINFALL in PAST 24 HOURS.

Temperature — Isotherms are drawn for each 10° Changes since previous morning are stated in words.

Weather is shown by Letters of the Beaufort Scale.

Rainfall. A dotted line separates the districts in which rain has fallen from those where there has been none. Falls of 0·5in. or more, are quoted in figures.

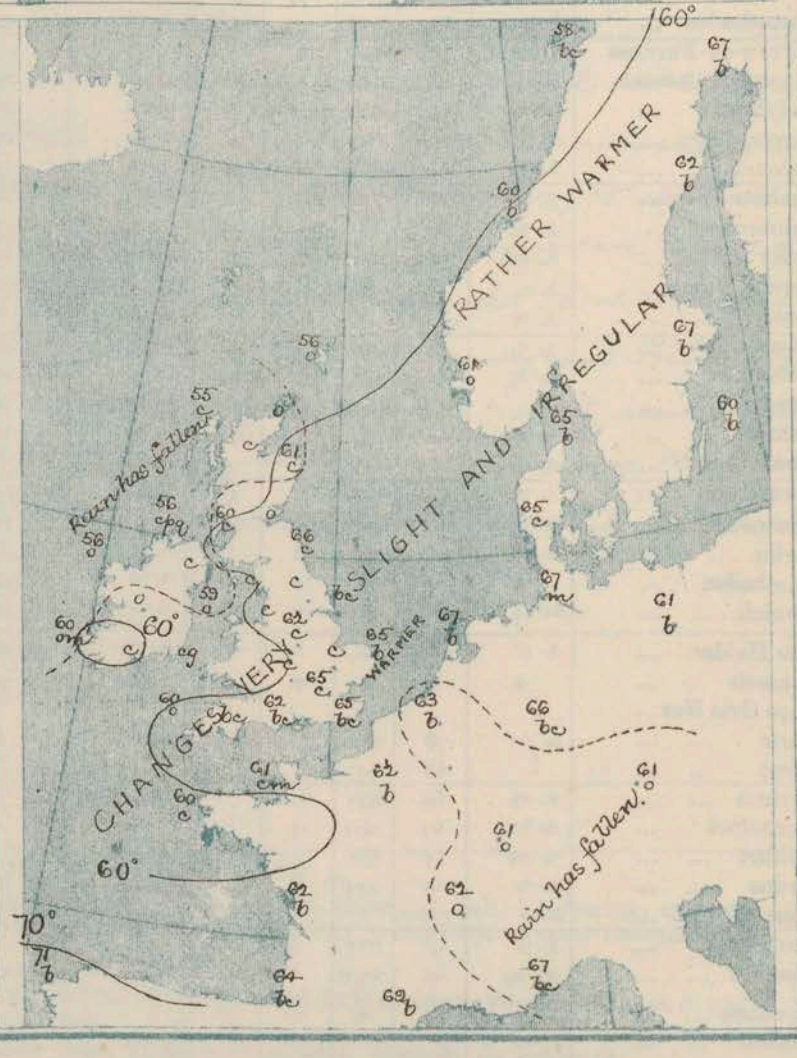
MEANS OF TEMPERATURE IN SHADE.

AND RAINFALL.

for the month of June.

STATIONS.	TEMPERATURE. Daily Max.	Daily Min.	at 8 a.m. Dry.	Wet.	RAINFALL. (Inches)
Sumburgh Head	54 · 5	45 · 1	50 · 4	48 · 7	2 · 07
Stornoway	57 · 6	46 · 0	53 · 3	51 · 0	2 · 99
Wick	58 · 8	45 · 7	53 · 1	50 · 4	1 · 75
Nairn	62 · 1	48 · 0	54 · 2	50 · 4	1 · 88
Aberdeen	61 · 3	47 · 5	54 · 7	50 · 9	1 · 88
Leith	64 · 5	48 · 1	56 · 0	52 · 5	1 · 84
Shields	60 · 9	49 · 1	54 · 9	51 · 9	1 · 82
York	66 · 2	48 · 3	56 · 1	52 · 7	2 · 45
Loughborough	68 · 7	49 · 0	58 · 1	54 · 1	2 · 43
Ardrossan	62 · 0	49 · 7	55 · 1	52 · 0	2 · 62
Donaghadee	60 · 9	48 · 9	55 · 0	52 · 8	2 · 04
Holyhead	61 · 7	51 · 6	55 · 6	53 · 1	2 · 10
Liverpool	63 · 6	50 · 9	56 · 6	52 · 6	1 · 96
Parsonstown	64 · 0	48 · 2	55 · 8	52 · 2	2 · 46
Valencia	61 · 7	50 · 7	56 · 8	53 · 8	3 · 42
Roche's Point	64 · 8	50 · 8	56 · 5	53 · 3	3 · 26
Pembroke	60 · 3	51 · 4	55 · 0	52 · 9	2 · 09
Scilly	61 · 1	53 · 0	57 · 2	55 · 0	1 · 94
Jersey	64 · 8	52 · 6	58 · 7	55 · 9	1 · 83
Hurst Castle	63 · 9	51 · 9	57 · 6	55 · 4	2 · 07
Dover	63 · 3	53 · 1	58 · 6	55 · 1	1 · 72
LONDON	69 · 3	50 · 6	59 · 2	54 · 8	2 · 12
Oxford	67 · 1	49 · 4	56 · 9	53 · 4	2 · 28
Cambridge	68 · 8	48 · 5	58 · 0	54 · 7	2 · 40
Yarmouth	62 · 2	51 · 4	56 · 9	54 · 1	2 · 02

NOTE — The Temperature means are for the 15 years 1871—85 the Rainfall means are mainly those for the 20 years 1866-85



GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·4 ins. and upwards, in an anticyclone lying over the Bay of Biscay and the west of France.
Lowest 30·1 ins. and less, in a large area lying over Norway and to the north of our Islands, and also in another area lying over the southeast of France.
Gradients slight. Barometer falling a little in Norway and the northeast of our Islands, but rising elsewhere.

TEMPERATURE — Highest 71° at Lisbon, 69° at Faerdar and Perpignan, 64° at Stockholm, Cuxhaven, Helder and Nice.
Lowest 55° at Stornoway, 56° at Lerwick Head, Malin Head and Belmullet and 57° at Mullaghmore & Pembroke.
The highest maxima registered over our Islands yesterday were 80° in London, and 75° at York, Loughborough, Oxford and Cambridge.

WIND — Light or moderate from the W^ward or SW^ward over the greater part of the United Kingdom but NW^ly in the extreme south of England, and also in France.
Calm in the north of Scandinavia, variable in Germany and the south of Scandinavia.

WEATHER — Fine generally but cloudy at several of our western and northern stations, as well as in some parts of France and Germany.
A little rain fell yesterday in Ireland and the north of Scotland.

SEA — Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

for the 24 hours ending at NOON on 1st JULY *1889.*

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED	6 SCOTLAND WEST	NONE ISSUED
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED

Note.—The **South Cone,** *point downwards* (▽) means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to *veer* towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone,** *point upwards* (△) means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to *veer* towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Skudesmes ...	30·15	70	62	W	4	b	2
Sumburgh Head	30·15	58	54	W	1	o	1
Stornoway ...	30·10	55	53	SW	5	r	5
Aberdeen ...	30·19	59	53	SE	2	o	2
Shields	30·20	61	57	E	2	o	2
Ardrossan ...	30·21	60	54	S	2	o	2
Malin Head ...	30·18	58	54	SSW	4	o	3
Mullaghmore ...	30·19	61	56	SSW	4	o g p	3
Belmullet ...	30·20	59	55	SW	3	o	*

	Bar.	Dry.	Wet.	Wind.		Wea.	Sea.
Holyhead ...	30·27	66	59	WNW	1	b	1
Valencia	30·31	63	59	SW	3	bcm	3
Scilly	30·33	64	61	WNW	3	b	4
Jersey	30·32	65	60	WNW	4	b	3
Dungeness ...	30·18	67	62	SW	3	b	0
London	30·19	68	66	WNW	2	c	*
Yarmouth ...	30·19	62	60	NNE	1	f	0
Rochefort ...	30·35	69	68	NW	3	b	0

GENERAL REMARKS ON THE WEATHER OVER EUROPE

DURING THE PAST 24 HOURS.

The reports for yesterday morning showed that pressure was highest, 30·3 ins. and upwards, in an anticyclone lying over the Bay of Biscay and, high, 30·2 ins. and upwards, in another system lying over Finland and north Russia. The lowest readings 29·7 ins. and less, were found in a large depression lying over central Russia. The wind was light from the SW^ed in the extreme west of our Islands from the NW^ed in the south of England, and from the N^ed in France and Spain, as well as over Russia, the Baltic and the greater part of central Europe. Elsewhere the wind was very variable, but in Algeria the prevailing current was S^ly. The weather was fine generally, but dull in many parts of Ireland and Scotland, as well as at some of the French, German and Russian stations. Rain was falling at Kiev. Temperature had changed rather irregularly, but the tendency was for a slight fall, readings ranged from a little above 70° over the Adriatic and Mediterranean to very little above 55° in the extreme north and northwest of our Islands, and to a little below 50° over central Russia. The highest individual readings were 75° at Malta, Sfax and Constantinople, 74° at Palermo and San Fernando, 73° at Trieste and 72° at Lesina, Leghorn and Rome; the lowest were 49° at Moscow, 51° at Archangel, 53° at Kiev, 55° at St Petersburg, Riga and Stornoway, and 56° at Memel, Sumburgh Head, Mullaghmore and Parsonstown.

In the course of the day a shallow depression moved northeastwards at a considerable distance from our extreme Northwest coasts, and the barometer fell slightly in Scotland and the north of Ireland, with rain in some places. Over England the weather remained generally fine, but thundershowers were experienced locally.

EXPLANATION OF COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue Sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

† The evening observations are taken at 6 p.m. in France and our Islands with the exception of Oxford, where they are taken at 8. p.m. In Sweden and Denmark, the observations are taken at 8 p.m. (Christiania time).

The Subscription for these Reports, forwarded by book post, is £1 per annum, payable in advance.

CORRECTIONS AND ADDITIONS TO THE REPORTS FOR JUNE 1889.

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY

DATE.	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	8 A.M. TO-DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 8.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
1	Corunna...	*	*	*	*	*	29.95	·00	60	57	0	E	2	b	4	66	45	-
3	Corunna...	*	*	*	*	*	30.02	+·29	63	59	+ 7	SSW	4	bc	4	64	52	0.12
4	Corunna...	*	*	*	*	*	30.18	+·16	67	?	+ 4	SW	1	bc	5	73	50	?
5	Lisbon.....	30.02	67	NW	5	bc	30.00	-·07	63	59	- 1	NW	3	o	2	77	63	-
6	The Helder...	30.22	65	NNE	2	b	30.20	-·12	66	-	+ 7	ENE	1	b	2	68	59	-
..	Corunna...	*	*	*	*	*	29.96	-·09	74	67	+ 6	NE	1	bc	5	79	57	-
7	Corunna...	*	*	*	*	*	30.00	+·04	62	-	- 12	N	5	o	o	79	59	-
8	Corunna...	*	*	*	*	*	29.95	-·05	64	63	+ 2	Z	0	o	5	68	59	0.20
9	Lyons.....	29.84	74	E	2	c	29.78	-·19	72	-	+ 2	SSW	1	b	*	87	60	-
10	The Helder...	29.58	62	N	1	r	29.59	-·08	57	55	- 7	NE	5	o	4	64	57	0.04
-	Corunna...	*	*	*	*	*	29.96	+·08	61	55	+ 4	N	4	bc	4	63	54	0.20
..	Lisbon.....	29.96	62	WSW	4	b	30.00	+·08	60	55	- 1	WNW	2	b	2	66	57	-
11	Corunna...	*	*	*	*	*	30.02	+·06	54	53	- 7	N	3	r	5	63	48	0.59
12	Skee.....	29.88	65	SE	2	bc	29.91	+·01	60	56	- 6	ENE	5	bc	4	72	52	1.78
..	Corunna...	*	*	*	*	*	30.12	+·10	60	57	+ 6	E	2	o	2	63	46	0.04
14	Brussels...	*	*	*	*	*	29.95	+·01	61	58	0	WNW	3	c	*	74	?	0.04
..	Belfort.....	29.89	63	W	1	c	29.82	-·02	60	59	- 9	W	1	r	*	71	59	1.58
..	Corunna...	*	*	*	*	*	30.13	+·01	65	62	+ 5	WSW	2	r	o	66	57	-
15	Corunna...	*	*	*	*	*	30.12	-·01	65	62	0	SW	4	o	2	68	61	0.39
17	Wisby.....	29.75	65	S	2	b	29.72	-·14	62	58	- 4	W	2	b	*	73	55	-
..	Corunna...	*	*	*	*	*	30.01	-·09	62	60	+ 3	NNE	4	b	6	66	55	-
18	Wisby.....	29.77	56	N	6	r	29.77	+·05	51	50	- 11	N	8	o	*	64	?	0.75
19	Malin Hd...	30.22	55	E	3	b	30.18	-·08	56	54	- 1	E	1	bw	1	59	50	-
..	Corunna...	*	*	*	*	*	29.94	-·06	64	62	- 5	NNE	4	o	4	73	59	-
20	Corunna...	*	*	*	*	*	29.99	+·05	60	60	- 4	N	4	o	4	70	57	-
21	Corunna...	*	*	*	*	*	30.06	+·07	62	60	+ 2	NW	1	f	3	68	55	-
22	Corunna...	*	*	*	*	*	30.08	+·02	60	59	- 2	WSW	2	f	3	66	59	0.12
24	Corunna...	*	*	*	*	*	30.02	-·10	69	65	+ 7	NNW	2	f	3	70	55	-
25	Biarritz.....	29.87	72	SE	3	o	29.93	-·07	64	-	+ 1	SSE	3	c	1	81	61	0.82
..	Corunna...	*	*	*	*	*	29.99	-·03	60	60	- 9	N	1	o	4	?	?	-
26	Corunna...	*	*	*	*	*	30.06	+·07	64	61	+ 4	N	4	o	6	72	59	0.08
27	Corunna...	*	*	*	*	*	30.22	+·16	63	62	- 1	N	4	f	0	66	59	-
28	Corunna...	*	*	*	*	*	30.26	+·04	62	60	- 1	N	2	f	3	70	59	-
29	Corunna...	*	*	*	*	*	30.30	+·04	66	?	+ 4	NNE	4	f	6	70	59	-
30	Cape Gris Nez	?	63	SSW	2	m	?	?	61	?	+ 1	NE	1	m	0	68	57	-

NOTICE.— The Table containing the "Summary of Meteorological Observations made at the
until the end of the year 1888 was lithographed on the back of the Monthly Sheet of Corrections
those Subscribers to the Daily Weather Report who apply for it in writing to the Secretary.

2. CORRECTIONS.

DATE.	STATIONS.	† YESTERDAY EVENING. Barometer at 32° F. and Sea Level.	Temp. in Shade.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	8 A.M. TO-DAY. Barometer. Reading at 32° F. and Sea Level.	Barometer. Difference from 8 a.m. yesterday.	Shade Temp. Dry.	Shade Temp. Wet.	Shade Temp. Difference from 8 a.m. yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea. (0 to 9.)	PAST 24 HOURS. Shade Temp. Max.	Shade Temp. Min.	Amount of Rainfall.
4	Malin Head	? 29·60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-
7	Hurst Castle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-
-	Dungeness....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain
8	Malin Hd....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	-
9	Parsonstown..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·05
11	Prawle Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·01
13	Valencia....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·02
16	Spurn Head	3 0·00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Spurn Head..	-	-	-	-	-	30·21	-	-	-	-	-	-	-	-	-	-	-
18	Scilly.....	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	54	-
20	Barrow-in-Fur.	-	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Loughborough	30·06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Parsonstown..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·04
25	Oxford.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0·01
26	Mullaghmore 4pm	-	-	-	-	-	-	-	63	-	-	-	-	-	-	-	-	-
27	Mullaghmore	-	-	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-
30	Belmullet..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain

Telegraphic Reporting Stations in the British Islands" during the various months, and which, and Additions", is now issued in a separate form. A Copy will be forwarded gratuitously to Meteorological Office, 63, Victoria St. S.W.